

# SICHERHEITSDATENBLATT

Gemäss Verordnung (EG) Nr. 1907/2006, wie geändert durch Verordnung (EU) Nr. 2020/878



## MEGACLEAN

### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

#### 1.1. Produktidentifikator

**Produktname** : MEGACLEAN  
**Registrierungsnummer REACH** : 01-2119457290-43  
**Produkttyp REACH** : Stoff/mono-constituent  
**CAS-Nummer** : 78-93-3  
**EG-Indexnummer** : 606-002-00-3  
**EG-Nummer** : 201-159-0  
**Molekularmasse** : 72.11 g/mol  
**Bruttoformel** : C4H8O

#### 1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

##### 1.2.1 Relevante identifizierte Verwendungen

Titel Expositionsszenario	Lebenszyklusstadium	Verwendungsdeskriptoren (PROC oder PC)	Verwendungsdeskriptoren (ERC)
ES01 Herstellung des Stoffes	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
ES02 Verwendung als Zwischenprodukt	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
ES03 Verteilung des Stoffes	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a

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ES03 Verteilung des Stoffes	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industriell	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
ES04 Formulierung & (Wieder)verpacken von Stoffen und Gemischen	Industriell	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriell	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
ES05 Verwendung in Beschichtungen	Industriell	PROC 1, PROC 10, PROC 13, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b	ERC 4
ES06 Verwendung in Beschichtungen	Gewerblich	PROC 1, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b	ERC 8a
	Gewerblich	PROC 1, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b	ERC 8d
ES07 Verwendung in Reinigungsmitteln	Industriell	PROC 1, PROC 10, PROC 13, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b	ERC 4
ES08 Verwendung in Reinigungsmitteln	Gewerblich	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Gewerblich	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8b
ES09 Schmiermittel	Industriell	PROC 1, PROC 10, PROC 13, PROC 17, PROC 18, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriell	PROC 1, PROC 10, PROC 13, PROC 17, PROC 18, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 7
ES10 Kühlschmierstoffe/Walzöle	Industriell	PROC 1, PROC 10, PROC 13, PROC 17, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9	ERC 4
ES11 Verwendung in Agrochemikalien	Gewerblich	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Gewerblich	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8d
ES12 Verwendung als Kraftstoff	Industriell	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 7
ES13 Verwendung als Kraftstoff	Gewerblich	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9a
	Gewerblich	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9b
ES14 Verwendung in Labors	Industriell	PROC 10, PROC 15	ERC 2
	Industriell	PROC 10, PROC 15	ERC 4
ES15 Verwendung in Labors	Gewerblich	PROC 10, PROC 15	ERC 8a
ES16 Verwendung in Beschichtungen	Verbraucher	PC 1, PC 15, PC 18, PC 23, PC 24, PC 31, PC 34, PC 4, PC 8, PC 9a, PC 9b	ERC 8a
	Verbraucher	PC 1, PC 15, PC 18, PC 23, PC 24, PC 31, PC 34, PC 4, PC 8, PC 9a, PC 9b	ERC 8d
ES17 Verwendung in Reinigungsmitteln	Verbraucher	PC 24, PC 35, PC 9a, PC 9b	ERC 8a
	Verbraucher	PC 24, PC 35, PC 9a, PC 9b	ERC 8d
ES18 Schmiermittel	Verbraucher	PC 1, PC 24, PC 31	ERC 8a
	Verbraucher	PC 1, PC 24, PC 31	ERC 8d
	Verbraucher	PC 1, PC 24, PC 31	ERC 9a

Überarbeitungsgrund: 4, 8, 9, 12

Datum der Erstellung: 2002-11-06

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ES18 Schmiermittel	Verbraucher	PC 1, PC 24, PC 31	ERC 9b
ES19 Verwendung in Agrochemikalien	Verbraucher	PC 12, PC 27	ERC 8a
	Verbraucher	PC 12, PC 27	ERC 8d
ES20 Verwendung als Kraftstoff	Verbraucher	PC 13	ERC 9a
	Verbraucher	PC 13	ERC 9b

## 1.2.2 Verwendungen, von denen abgeraten wird

Gruppe	Verwendungen, von denen abgeraten wird	Verwendungsdeskriptoren (PC)	Umweltfreisetzungskategorie (ERC)	Erzeugnis (AC)
Gewerblich	Keine Verwendungen, von denen abgeraten			
Industriell	Keine Verwendungen, von denen abgeraten			

## 1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

### Lieferant des Sicherheitsdatenblattes

Novatio\*  
 Industrielaan 5B  
 B-2250 Olen  
 ☎ +32 14 25 76 40  
 📠 +32 14 22 02 66  
 info@novatio.be  
 \*NOVATIO is a registered trademark of Novatech International N.V.

### Hersteller des Produktes

Novatech International N.V.  
 Industrielaan 5B  
 B-2250 Olen  
 ☎ +32 14 85 97 37  
 📠 +32 14 85 97 38  
 info@novatech.be

## 1.4. Notrufnummer

24 Std/24 Std (Telefonische Beratung: Englisch, Französisch, Deutsch, Niederländisch) :  
 +32 14 58 45 45 (BIG)

## ABSCHNITT 2: Mögliche Gefahren

### 2.1. Einstufung des Stoffs oder Gemischs

Nach den Kriterien der Verordnung (EG) Nr. 1272/2008 als gefährlich eingestuft

Klasse	Kategorie	Gefahrenhinweise
Flam. Liq.	Kategorie 2	H225: Flüssigkeit und Dampf leicht entzündbar.
Eye Irrit.	Kategorie 2	H319: Verursacht schwere Augenreizung.
STOT SE	Kategorie 3	H336: Kann Schläfrigkeit und Benommenheit verursachen.

### 2.2. Kennzeichnungselemente



Enthält: Methylethylketon.

**Signalwort** Gefahr

#### H-Sätze

H225 Flüssigkeit und Dampf leicht entzündbar.  
 H319 Verursacht schwere Augenreizung.  
 H336 Kann Schläfrigkeit und Benommenheit verursachen.

#### P-Sätze

P210 Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.  
 P280 Schutzhandschuhe und Augenschutz/Gesichtsschutz tragen.  
 P304 + P340 BEI EINATMEN: Die Person an die frische Luft bringen und für ungehinderte Atmung sorgen.  
 P303 + P361 + P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen oder duschen.  
 P305 + P351 + P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.  
 P403 + P233 An einem gut belüfteten Ort aufbewahren. Behälter dicht verschlossen halten.

#### Ergänzenden Informationen

EUH066 Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

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## 2.3. Sonstige Gefahren

Keine sonstigen Gefahren bekannt

## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### 3.1. Stoffe

Name REACH Registrierungsnr.	CAS-Nr. EG-Nr.	Konz. (C)	Einstufung gemäß CLP	Fußnote	Bemerkung	M-Faktoren und ATE
Methylethylketon 01-2119457290-43	78-93-3 201-159-0	C≤100%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	(1)(2)(10)	Mono-constituent	

- (1) Zu vollständigem Wortlaut der H- und EUH-Sätze: siehe Abschnitt 16  
(2) Stoff, für den ein gemeinschaftlicher Grenzwert für die Exposition am Arbeitsplatz gilt  
(10) Unterliegt den Beschränkungen in Anhang XVII der Verordnung (EG) Nr. 1907/2006

### 3.2. Gemische

Nicht anwendbar

## ABSCHNITT 4: Erste-Hilfe-Maßnahmen

### 4.1. Beschreibung der Erste-Hilfe-Maßnahmen

#### Allgemeine Maßnahmen:

(eigene) Sicherheit beachten. Wenn möglich, sich der betroffenen Person nähern und Vitalfunktionen überprüfen. Im Falle von Verletzung und/oder Vergiftung die Europäische Notfallnummer 112 anrufen. Symptome beginnend mit den am meisten lebensbedrohenden Verletzungen und Störungen behandeln. Betroffene Person unter Beobachtung halten, Möglichkeit verzögerter Symptome.

#### Nach Einatmen:

Das Opfer an die frische Luft bringen. Im Falle von Atemproblemen ärztlichen/medizinischen Rat einholen.

#### Nach Hautkontakt:

Wenn möglich, Chemikalie durch Aufwischen/Trocknen entfernen. Anschließend sofort mit (lauwarmem) Wasser spülen/duschen. Bei anhaltender Reizung ärztlichen/medizinischen Rat einholen.

#### Nach Augenkontakt:

Sofort mit viel Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter ausspülen. Bei anhaltender Reizung ärztlichen/medizinischen Rat einholen.

#### Nach Verschlucken:

Mund mit Wasser spülen. Bei Unwohlsein ärztlichen/medizinischen Rat einholen. Nicht darauf warten, dass Symptome auftreten, um Giftinformationszentrum zu konsultieren.

### 4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

#### 4.2.1 Akute Symptome

##### Nach Einatmen:

Schwindel. Schläfrigkeit.

##### Nach Hautkontakt:

NACH LANGFRISTIGER/WIEDERHOLTER EXPOSITION/KONTAKT: Trockene Haut. Rissige Haut.

##### Nach Augenkontakt:

Reizung des Augengewebes.

##### Nach Verschlucken:

Keine Wirkungen bekannt.

#### 4.2.2 Verzögert auftretende Symptome

Keine Wirkungen bekannt.

### 4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Wenn anwendbar und vorhanden, ist das unten angegeben.

## ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

### 5.1. Löschmittel

#### 5.1.1 Geeignete Löschmittel:

Kleiner Brand: Schnell wirkendes ABC-Löschpulver, Schnell wirkendes BC-Löschpulver, Schnell wirkender Schaumlöcher der Brandklasse B, Schnell wirkender CO<sub>2</sub>-Löcher.

Großer Brand: Brandklasse B Schaum (alkoholbeständig), Wasserdampf, wenn sich Lache nicht ausbreiten kann.

#### 5.1.2 Ungeeignete Löschmittel:

Kleiner Brand: Wasser (schnell wirkender Feuerlöscher, Rolle); Gefahr einer Ausbreitung der Lache.

Großer Brand: Wasser; Gefahr einer Ausbreitung der Lache.

### 5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Bei Verbrennung werden CO und CO<sub>2</sub> gebildet. Bei Erhitzung: Peroxidbildung mit erhöhter Brand-/Explosionsgefahr.

### 5.3. Hinweise für die Brandbekämpfung

#### 5.3.1 Maßnahmen:

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Geschlossene Behälter mit Wasser kühlen, falls sie dem Feuer ausgesetzt sind. Hitzegefährdete Ladung nicht versetzen.

## 5.3.2 Besondere Schutzausrüstungen für die Brandbekämpfung:

Handschuhe (EN 374). Dichtschließende Schutzbrille (EN 166). Schutzkleidung (EN 14605 oder EN 13034). Bei Erhitzung/Verbrennung: umluftunabhängiges Atemschutzgerät (EN 136 + EN 137).

## ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

### 6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Motore abstellen und nicht rauchen. Kein offenes Feuer und keine Funken. Funkenfreie und explosionsgeschützte Geräte und Leuchten.

#### 6.1.1 Schutzausrüstungen für nicht für Notfälle geschultes Personal

Siehe Abschnitt 8.2

#### 6.1.2 Schutzausrüstungen für Einsatzkräfte

Handschuhe (EN 374). Dichtschließende Schutzbrille (EN 166). Schutzkleidung (EN 14605 oder EN 13034).

Geeignete Schutzkleidung

Siehe Abschnitt 8.2

### 6.2. Umweltschutzmaßnahmen

Freierwirdendes Produkt auf sammeln. Ausgelaufene Flüssigkeit eindämmen. Wenn möglich Verdunstung einschränken. Eindringen in Kanalisationen verhindern.

### 6.3. Methoden und Material für Rückhaltung und Reinigung

Flüssigkeit mit inertem Absorptionsmittel aufnehmen. Absorbiertes Produkt in verschließbaren Behältern sammeln. Verschütteten Feststoff/Reste sorgfältig sammeln. Verschmutzte Flächen reichlich mit Wasser reinigen. Sammelgut an Hersteller/zuständige Stelle abgeben. Nach der Arbeit Kleidung und Ausrüstung reinigen.

### 6.4. Verweis auf andere Abschnitte

Siehe Abschnitt 13.

## ABSCHNITT 7: Handhabung und Lagerung

Die in diesem Abschnitt enthaltenen Informationen sind eine allgemeine Beschreibung. Wenn anwendbar und vorhanden, werden die Expositionsszenarien in den Anhang aufgenommen. Sie müssen immer zum Thema gehörende Expositionsszenarien gebrauchen, welche ihren identifizierten Verwendungen entsprechen.

### 7.1. Schutzmaßnahmen zur sicheren Handhabung

Von offenen Flammen/Wärmequellen fernhalten. Bei unzureichender Lüftung: Maßnahmen gegen elektrostatische Aufladungen treffen. Bei unzureichender Lüftung: funkenfreie/explosionsgeschützte Geräte/Leuchten verwenden. Bei unzureichender Lüftung: offene Flammen/Funken vermeiden. Gas/Dampf schwerer als Luft bei 20°C. Übliche Hygiene befolgen. Verschmutzte Kleidung sofort ausziehen. Vor Gebrauch anwesende Peroxide aufspüren/vernichten. Behälter gut geschlossen halten. Abfälle nicht in den Abfluss schütten.

### 7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

#### 7.2.1 Bedingungen für eine sichere Lagerung:

Den gesetzlichen Vorschriften entsprechen. Vor Licht schützen. Behälter an einem gut gelüfteten Ort aufbewahren. Feuerfester Lagerraum. Tanks erden. Vor Frost schützen. Vor direkter Sonneneinstrahlung schützen.

#### 7.2.2 Fernhalten von:

Wärmequellen, Zündquellen.

#### 7.2.3 Geeignetes Verpackungsmaterial:

Keine Daten vorhanden

#### 7.2.4 Ungeeignetes Verpackungsmaterial:

Keine Daten vorhanden

### 7.3. Spezifische Endanwendungen

Wenn anwendbar und vorhanden, werden die Expositionsszenarien in den Anhang aufgenommen. Hinweise des Herstellers beachten.

## ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

### 8.1. Zu überwachende Parameter

#### 8.1.1 Exposition am Arbeitsplatz

##### a) Grenzwerte für die berufsbedingte Exposition

Die Grenzwerte werden unten aufgeführt, soweit diese verfügbar und anwendbar sind.

#### EU

Butanon	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Arbeitsplatz-Richtgrenzwert)	200 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Arbeitsplatz-Richtgrenzwert)	600 mg/m <sup>3</sup>
	Kurzzeitwert (Arbeitsplatz-Richtgrenzwert)	300 ppm
	Kurzzeitwert (Arbeitsplatz-Richtgrenzwert)	900 mg/m <sup>3</sup>

#### Belgien

2-Butanone	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h	200 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h	600 mg/m <sup>3</sup>
	Kurzzeitwert	300 ppm
	Kurzzeitwert	900 mg/m <sup>3</sup>

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## die Niederlande

2-Butanon	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Öffentlicher Arbeitsplatz-Richtgrenzwert)	197 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Öffentlicher Arbeitsplatz-Richtgrenzwert)	590 mg/m <sup>3</sup>
	Kurzzeitwert (Öffentlicher Arbeitsplatz-Richtgrenzwert)	300 ppm
	Kurzzeitwert (Öffentlicher Arbeitsplatz-Richtgrenzwert)	900 mg/m <sup>3</sup>

## Frankreich

Méthyléthylcétone	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (VRC: Valeur réglementaire contraignante)	600 mg/m <sup>3</sup>
	Kurzzeitwert (VRC: Valeur réglementaire contraignante)	300 ppm
	Kurzzeitwert (VRC: Valeur réglementaire contraignante)	900 mg/m <sup>3</sup>

## Deutschland

Butanon	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (TRGS 900)	200 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (TRGS 900)	600 mg/m <sup>3</sup>

## Österreich

Butanon	Tagesmittelwert (MAK)	100 ppm
	Tagesmittelwert (MAK)	295 mg/m <sup>3</sup>
	Kurzzeitwert 30(Miw) 4x (MAK)	200 ppm
	Kurzzeitwert 30(Miw) 4x (MAK)	590 mg/m <sup>3</sup>

## UK

Butan-2-one (methyl ethyl ketone)	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Workplace exposure limit (EH40/2005))	200 ppm
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (Workplace exposure limit (EH40/2005))	600 mg/m <sup>3</sup>
	Kurzzeitwert (Workplace exposure limit (EH40/2005))	300 ppm
	Kurzzeitwert (Workplace exposure limit (EH40/2005))	899 mg/m <sup>3</sup>

## USA (TLV-ACGIH)

Methyl ethyl ketone	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert 8 h (TLV - Adopted Value)	200 ppm
	Kurzzeitwert (TLV - Adopted Value)	300 ppm

## b) Nationale biologische Grenzwerte

Die Grenzwerte werden unten aufgeführt, soweit diese verfügbar und anwendbar sind.

### Deutschland

2-Butanon (Methylethylketon) (2-Butanon)	Urine: expositionsende, bzw. schichtende	2 mg/l	
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### UK

Butan-2-one (butan-2-one)	Urine: post shift	70 µmol/L	
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### USA (BEI-ACGIH)

Methyl ethyl ketone (Methyl ethyl ketone)	urine: end of shift	2 mg/L	Nonspecific
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## 8.1.2 Verfahren zur Probenahme

Arbeitsstoff	Test	Nummer
2-Butanone (MEK) (Methyl ethyl ketone)	NIOSH	2500
2-Butanone (Methyl ethyl ketone)	OSHA	84
2-Butanone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
2-Butanone (Volatile Organic compounds)	NIOSH	2549
2-Butanone	OSHA	1004
2-Butanone	OSHA	13
ACETONE and METHYL ETHYL KETONE in urine	NIOSH	8319
MEK	NIOSH	8002
Methyl Ethyl Ketone (ketones I)	NIOSH	2555
Methyl Ethyl Ketone	OSHA	16

## 8.1.3 Anwendbare Grenzwerte bei der vorgesehenen Verwendung

Die Grenzwerte werden unten aufgeführt, soweit diese verfügbar und anwendbar sind.

## 8.1.4 Schwellenwerte

### DNEL/DMEL - Arbeitnehmer

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Schwellenwert (DNEL/DMEL)	Typ	Wert	Bemerkung
DNEL	Systemische Langzeitwirkungen, Inhalation	600 mg/m <sup>3</sup>	

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DNEL	Systemische Langzeitwirkungen, dermal	1161 mg/kg bw/Tag	
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## DNEL/DMEL - Allgemeinbevölkerung

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Schwellenwert (DNEL/DMEL)	Typ	Wert	Bemerkung
DNEL	Systemische Langzeitwirkungen, Inhalation	106 mg/m <sup>3</sup>	
	Systemische Langzeitwirkungen, dermal	412 mg/kg bw/Tag	
	Systemische Langzeitwirkungen, oral	31 mg/kg bw/Tag	

#### 8.1.5 Control banding

Wenn anwendbar und vorhanden, ist das unten angegeben.

## 8.2. Begrenzung und Überwachung der Exposition

Die in diesem Abschnitt enthaltenen Informationen sind eine allgemeine Beschreibung. Wenn anwendbar und vorhanden, werden die Expositionsszenarien in den Anhang aufgenommen. Sie müssen immer zum Thema gehörende Expositionsszenarien gebrauchen, welche ihren identifizierten Verwendungen entsprechen.

### 8.2.1 Geeignete technische Steuerungseinrichtungen

Von offenen Flammen/Wärmequellen fernhalten. Bei unzureichender Lüftung: maßnahmen gegen elektrostatische Aufladungen treffen. Bei unzureichender Lüftung: funkenfreie/explosionsgeschützte Geräte/Leuchten verwenden. Bei unzureichender Lüftung: offene Flammen/Funken vermeiden. Regelmäßige Konzentrationsmessungen in der Luft vornehmen. Unter örtlicher Absaugung/Lüftung arbeiten.

### 8.2.2 Individuelle Schutzmaßnahmen, zum Beispiel persönliche Schutzausrüstung

Übliche Hygiene befolgen. Bei der Arbeit nicht essen, trinken, rauchen.

#### a) Atemschutz:

Vollmaske mit Filtertyp A bei Konz. in der Luft > Expositionsgrenzwert.

#### b) Handschutz:

Schutzhandschuhe gegen Chemikalien (EN 374).

Materialauswahl	Gemessene Durchbruchzeit	Dicke	Schutzgrad	Bemerkung
Nitrilkautschuk	> 480 Minuten	0.35 mm	Klasse 6	

#### c) Augenschutz:

Dichtschließende Schutzbrille (EN 166).

#### d) Hautschutz:

Schutzkleidung (EN 14605 oder EN 13034). Kopf-/Nackenschutz.

### 8.2.3 Begrenzung und Überwachung der Umweltexposition:

Siehe Abschnitt 6.2, 6.3 und 13

## ABSCHNITT 9: Physikalische und chemische Eigenschaften

### 9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Erscheinungsform	Flüssigkeit
Geruch	Charakteristischer Geruch
Geruchsschwelle	6 mg/m <sup>3</sup> - 251 mg/m <sup>3</sup> 2 ppm - 85 ppm
Farbe	Keine Daten vorhanden zur Farbe
Durchsichtigkeit	Hell
Partikelgröße	Nicht anwendbar (Flüssigkeit)
Explosionsgrenzen	1.8 - 11.5 Vol %
Entzündbarkeit	Flüssigkeit und Dampf leicht entzündbar.
Log Kow	0.3 ; Experimenteller Wert ; OECD 117 ; 40 °C
Dynamische Viskosität	0.405 mPa.s ; 25 °C 0.315 mPa.s ; 50 °C
Kinematische Viskosität	Keine Daten in der Literatur vorhanden
Schmelzpunkt	-87 °C ; 1013 hPa
Siedepunkt	80 °C ; 1013 hPa
Relative Dampfdichte	2.50 ; Berechnet
Dampfdruck	104 hPa ; 20 °C 370 hPa ; 50 °C
Löslichkeit	Wasser ; vollständig Ethanol ; vollständig Aceton ; vollständig Ether ; vollständig
Relative Dichte	0.81 ; 20 °C
Absolute Dichte	805 kg/m <sup>3</sup> ; 20 °C
Zersetzungstemperatur	Keine Daten in der Literatur vorhanden
Selbstentzündungstemperatur	404 °C ; 1010 hPa
Flammpunkt	-4 °C
pH	Keine Daten in der Literatur vorhanden

### 9.2. Sonstige Angaben

Keine Daten vorhanden

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## ABSCHNITT 10: Stabilität und Reaktivität

### 10.1. Reaktivität

Mögliche Entzündung durch Funken.

### 10.2. Chemische Stabilität

Stabil unter Normalbedingungen.

### 10.3. Möglichkeit gefährlicher Reaktionen

Reagiert heftig mit (starken) Oxidationsmitteln: (erhöhte) Brand-/Explosionsgefahr. Reagiert heftig bis explosiv mit vielen Verbindungen, z.B.: mit (manchen) Halogenverbindungen, alkoholen und mit (manchen) Säuren/Basen. Bei längerer Lagerzeit: Peroxidbildung mit erhöhter Brand-/Explosionsgefahr.

### 10.4. Zu vermeidende Bedingungen

#### Vorsorgemaßnahmen

Von offenen Flammen/Wärmequellen fernhalten. Bei unzureichender Lüftung: maßnahmen gegen elektrostatische Aufladungen treffen. Bei unzureichender Lüftung: funkenfreie/explosionsgeschützte Geräte/Leuchten verwenden. Bei unzureichender Lüftung: offene Flammen/Funken vermeiden.

### 10.5. Unverträgliche Materialien

Keine Daten vorhanden.

### 10.6. Gefährliche Zersetzungsprodukte

Bei Verbrennung werden CO und CO<sub>2</sub> gebildet.

## ABSCHNITT 11: Toxikologische Angaben

### 11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

#### 11.1.1 Prüfungsergebnisse

#### Akute Toxizität

##### MEGACLEAN

Expositionsweg	Parameter	Methode	Wert	Expositionszeit	Spezies	Wertbestimmung	Bemerkung
Oral	LD50	Äquivalent mit OECD 423	2193 mg/kg bw		Ratte (männlich / weiblich)	Experimenteller Wert	
Dermal	LD50	Äquivalent mit OECD 402	> 8100 mg/kg bw/Tag	24 Std	Kaninchen (männlich)	Experimenteller Wert	
Inhalation						Datenverzicht	

#### Schlussfolgerung

Nicht für akute Toxizität eingestuft

#### Ätz-/Reizwirkung

##### MEGACLEAN

Expositionsweg	Ergebnis	Methode	Expositionszeit	Zeitpunkt	Spezies	Wertbestimmung	Bemerkung
Auge	Reizwirkung	Äquivalent mit OECD 405		24; 72 Std	Kaninchen	Experimenteller Wert	Einmalige Verabreichung ohne Spülung
Haut	Keine Reizwirkung	OECD 404	4 Std	4; 24; 48; 72 Stunden	Kaninchen	Read-across	

#### Schlussfolgerung

Verursacht schwere Augenreizung.

Nicht als hautreizend eingestuft

Nicht als reizend für die Atemwege eingestuft

#### Sensibilisierung der Atemwege/Haut

##### MEGACLEAN

Expositionsweg	Ergebnis	Methode	Expositionszeit	Beobachtungszeitpunkt	Spezies	Wertbestimmung	Bemerkung
Haut	Nicht sensibilisieren	OECD 406			Meerschweinchen (weiblich)	Experimenteller Wert	

#### Schlussfolgerung

Nicht als sensibilisierend für die Haut eingestuft

Nicht als sensibilisierend bei Inhalation eingestuft

#### Spezifische Zielorgan-Toxizität

##### MEGACLEAN

Expositionsweg	Parameter	Methode	Wert	Organ	Wirkung	Expositionszeit	Spezies	Wertbestimmung
Oral								Datenverzicht

Überarbeitungsgrund: 4, 8, 9, 12

Datum der Erstellung: 2002-11-06

Datum der Überarbeitung: 2022-02-04

Überabernungsnummer: 0800

BIG-Nummer: 38712

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Dermal								Datenverzicht
Inhalation (Dämpfe)	NOAEC	Äquivalent mit OECD 413	5041 ppm		Keine Wirkung	13 Wochen (6Std / Tag, 5 Tage / Woche)	Ratte (männlich / weiblich)	Experimenteller Wert
Inhalation (Dämpfe)			STOT SE Kat.3		Schläfrigkeit, Benommenheit			Anhang VI

## Schlussfolgerung

Kann Schläfrigkeit und Benommenheit verursachen.  
Nicht für subchronische Toxizität eingestuft

## Keimzell-Mutagenität (in vitro)

### MEGACLEAN

Ergebnis	Methode	Testsubstrat	Wirkung	Wertbestimmung	Bemerkung
Negativ mit Stoffwechselaktivierung, negativ ohne Stoffwechselaktivierung	Äquivalent mit OECD 473	Rattenleberzellen	Keine Wirkung	Experimenteller Wert	
Negativ mit Stoffwechselaktivierung, negativ ohne Stoffwechselaktivierung	Äquivalent mit OECD 476	Maus (Lymphomazellen L5178Y)	Keine Wirkung	Experimenteller Wert	
Negativ mit Stoffwechselaktivierung, negativ ohne Stoffwechselaktivierung	Äquivalent mit OECD 471	Bacteria (S.typhimurium)	Keine Wirkung	Experimenteller Wert	

## Keimzell-Mutagenität (in vivo)

### MEGACLEAN

Ergebnis	Methode	Expositionszeit	Testsubstrat	Organ	Wertbestimmung
Negativ (Intraperitoneal)	Äquivalent mit OECD 474		Maus (männlich / weiblich)		Experimenteller Wert

## Schlussfolgerung

Nicht für mutagene Toxizität oder Gentoxizität eingestuft

## Karzinogenität

### MEGACLEAN

Keine (experimentellen) Daten vorhanden

## Schlussfolgerung

Nicht für Karzinogenität eingestuft

## Reproduktionstoxizität

### MEGACLEAN

	Parameter	Methode	Wert	Expositionszeit	Spezies	Wirkung	Organ	Wertbestimmung
Entwicklungstoxizität (Inhalation)	NOAEC	Äquivalent mit OECD 414	1002 ppm	10 Tage (7Std / Tag)	Ratte	Keine Wirkung	Fötus	Experimenteller Wert
Maternale Toxizität (Inhalation)	NOAEC	Äquivalent mit OECD 414	1002 ppm	10 Tage (7Std / Tag)	Ratte (weiblich)	Keine Wirkung		Experimenteller Wert
Wirkungen auf Fruchtbarkeit (Oral (Trinkwasser))	NOAEL	Äquivalent mit OECD 416	1644 mg/kg bw/Tag - 1771 mg/kg bw/Tag		Ratte (männlich / weiblich)	Keine Wirkung		Experimenteller Wert

## Schlussfolgerung

Nicht für Reproduktions- oder Entwicklungstoxizität eingestuft

## Toxizität andere Wirkungen

### MEGACLEAN

Exponierungsvej	Parameter	Methode	Wert	Organ	Wirkung	Expositionszeit	Spezies	Wertbestimmung
Haut				Haut	Spröde oder rissige Haut			Literaturstudie

## Schlussfolgerung

Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

## Chronische Wirkungen nach kurzer oder lang anhaltender Exposition

### MEGACLEAN

Keine Wirkungen bekannt.

## 11.2. Angaben über sonstige Gefahren

Überarbeitungsgrund: 4, 8, 9, 12

Datum der Erstellung: 2002-11-06

Datum der Überarbeitung: 2022-02-04

Überabernungsnummer: 0800

BIG-Nummer: 38712

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Kein Hinweis auf endokrinschädliche Eigenschaften

## ABSCHNITT 12: Umweltbezogene Angaben

### 12.1. Toxizität

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	Parameter	Methode	Wert	Dauer	Spezies	Testplan	Süß-/Salzwasser	Wertbestimmung
Akute Toxizität Fische	LC50	OECD 203	2993 mg/l	96 Std	Pimephales promelas	Statisches System	Süßwasser	Experimenteller Wert
Akute Toxizität Krebstiere	EC50	OECD 202	308 mg/l	48 Std	Daphnia magna	Statisches System	Süßwasser	Experimenteller Wert
Toxizität Algen und andere Wasserpflanzen	ErC50	OECD 201	1972 mg/l	72 Std	Pseudokirchneriella subcapitata	Statisches System	Süßwasser	Experimenteller Wert
Toxizität Wasser-Mikroorganismen	Toxicity threshold	Äquivalent mit DIN 38412/8	1150 mg/l	16 Std	Pseudomonas putida	Statisches System	Süßwasser	Experimenteller Wert

#### Schlussfolgerung

Nach den Kriterien der Verordnung (EG) Nr. 1272/2008 nicht als umweltgefährlich eingestuft

### 12.2. Persistenz und Abbaubarkeit

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#### Biologische Abbaubarkeit Wasser

Methode	Wert	Dauer	Wertbestimmung
OECD 301D	98 %; Sauerstoffverbrauch	28 Tag(e)	Experimenteller Wert

#### Schlussfolgerung

##### Wasser

Leicht biologisch abbaubar im Wasser

### 12.3. Bioakkumulationspotenzial

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#### Log Kow

Methode	Bemerkung	Wert	Temperatur	Wertbestimmung
OECD 117		0.3	40 °C	Experimenteller Wert

#### Schlussfolgerung

Niedriges Potenzial für Bioakkumulation (Log Kow < 4)

### 12.4. Mobilität im Boden

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#### (log) Koc

Parameter	Methode	Wert	Wertbestimmung
log Koc	SRC PCKOCWIN v2.0	0.654 - 1.281	Berechnungswert

#### Schlussfolgerung

Sehr mobil im Boden

### 12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Stoff erfüllt weder die PBT-Kriterien noch die vPvB-Kriterien gemäß Anhang XIII der Verordnung (EG) Nr. 1907/2006 und ist daher weder ein PBT noch ein vPvB.

### 12.6. Endokrinschädliche Eigenschaften

Kein Hinweis auf endokrinschädliche Eigenschaften

### 12.7. Andere schädliche Wirkungen

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#### Treibhausgase

Keine Aufführung in der Liste der fluorierten Treibhausgase (Verordnung (EU) Nr. 517/2014)

#### Ozonabbaupotential (ODP)

Nicht als gefährlich für die Ozonschicht eingestuft (Verordnung (EG) Nr. 1005/2009)

#### Grundwasser

Grundwassergefährdend

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## ABSCHNITT 13: Hinweise zur Entsorgung

Die in diesem Abschnitt enthaltenen Informationen sind eine allgemeine Beschreibung. Wenn anwendbar und vorhanden, werden die Expositionsszenarien in den Anhang aufgenommen. Sie müssen immer zum Thema gehörende Expositionsszenarien gebrauchen, welche ihren identifizierten Verwendungen entsprechen.

### 13.1. Verfahren der Abfallbehandlung

#### 13.1.1 Abfallvorschriften

##### Europäische Union

Gefährlicher Abfall nach Richtlinie 2008/98/EG, wie geändert durch Verordnung (EU) Nr. 1357/2014 und Verordnung (EU) Nr. 2017/997. Der Abfallcode soll vom Verwender zugeteilt werden, vorzugsweise nach Rücksprache mit den betreffenden (Umwelt)behörden.

#### 13.1.2 Entsorgungshinweise

Darf nicht mit dem Hausmüll deponiert werden. Gefährlicher Abfall soll nicht mit anderem Abfall vermischt werden. Unterschiedliche Arten von gefährlichem Abfall sollen nicht vermischt werden, wenn dies eine Verschmutzung nach sich ziehen kann oder zu Problemen bei der Weiterverarbeitung des Abfalls führen kann. Gefährlicher Abfall muss verantwortungsvoll gehandhabt werden. Alle Einrichtungen, die gefährlichen Abfall lagern, transportieren oder handhaben, müssen die notwendigen Maßnahmen ergreifen, um die Gefahr einer Verschmutzung oder Schädigung von Menschen oder Tieren zu vermeiden. Abfall entsorgen unter Beachtung der örtlichen und/oder nationalen Vorschriften. Nicht in die Kanalisation oder die Umwelt ableiten. An genehmigte Sondermüllsammelstelle abgeben.

#### 13.1.3 Verpackung

##### Europäische Union

Abfallcode Behälter (Richtlinie 2008/98/EG).

15 01 10\* (Verpackungen, die Rückstände gefährlicher Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind).

## ABSCHNITT 14: Angaben zum Transport

### Straße (ADR)

#### 14.1. UN-Nummer

UN-Nummer	1193
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#### 14.2. Ordnungsgemäße UN-Versandbezeichnung

Ordnungsgemäße Versandbezeichnung	Ethylmethylketon (Methylethylketon)
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#### 14.3. Transportgefahrenklassen

Nummer zur Kennzeichnung der Gefahr	33
Klasse	3
Klassifizierungscode	F1

#### 14.4. Verpackungsgruppe

Verpackungsgruppe	II
Gefahrzettel	3

#### 14.5. Umweltgefahren

Kennzeichen für umweltgefährdende Stoffe	nein
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#### 14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Sondervorschriften	
Begrenzte Mengen	Zusammengesetzte Verpackungen: bis zu 1 Liter je Innenverpackung für flüssige Stoffe. Ein Versandstück darf nicht schwerer sein als 30 kg. (Bruttomasse)

### Eisenbahn (RID)

#### 14.1. UN-Nummer

UN-Nummer	1193
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#### 14.2. Ordnungsgemäße UN-Versandbezeichnung

Ordnungsgemäße Versandbezeichnung	Ethylmethylketon (Methylethylketon)
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#### 14.3. Transportgefahrenklassen

Nummer zur Kennzeichnung der Gefahr	33
Klasse	3
Klassifizierungscode	F1

#### 14.4. Verpackungsgruppe

Verpackungsgruppe	II
Gefahrzettel	3

#### 14.5. Umweltgefahren

Kennzeichen für umweltgefährdende Stoffe	nein
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#### 14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Sondervorschriften	
Begrenzte Mengen	Zusammengesetzte Verpackungen: bis zu 1 Liter je Innenverpackung für flüssige Stoffe. Ein Versandstück darf nicht schwerer sein als 30 kg. (Bruttomasse)

### Binnenwasserstraßen (ADN)

#### 14.1. UN-Nummer

UN-Nummer	1193
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#### 14.2. Ordnungsgemäße UN-Versandbezeichnung

Ordnungsgemäße Versandbezeichnung	Ethylmethylketon (Methylethylketon)
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#### 14.3. Transportgefahrenklassen

Klasse	3
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Klassifizierungscode	F1
14.4. Verpackungsgruppe	
Verpackungsgruppe	II
Gefahrzettel	3
14.5. Umweltgefahren	
Kennzeichen für umweltgefährdende Stoffe	nein
14.6. Besondere Vorsichtsmaßnahmen für den Verwender	
Sondervorschriften	
Begrenzte Mengen	Zusammengesetzte Verpackungen: bis zu 1 Liter je Innenverpackung für flüssige Stoffe. Ein Versandstück darf nicht schwerer sein als 30 kg. (Bruttomasse)

## See (IMDG/IMSBC)

14.1. UN-Nummer	
UN-Nummer	1193
14.2. Ordnungsgemäße UN-Versandbezeichnung	
Ordnungsgemäße Versandbezeichnung	ethyl methyl ketone (methyl ethyl ketone)
14.3. Transportgefahrenklassen	
Klasse	3
14.4. Verpackungsgruppe	
Verpackungsgruppe	II
Gefahrzettel	3
14.5. Umweltgefahren	
Marine pollutant	-
Kennzeichen für umweltgefährdende Stoffe	nein
14.6. Besondere Vorsichtsmaßnahmen für den Verwender	
Sondervorschriften	
Begrenzte Mengen	Zusammengesetzte Verpackungen: bis zu 1 Liter je Innenverpackung für flüssige Stoffe. Ein Versandstück darf nicht schwerer sein als 30 kg. (Bruttomasse)
14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten	
Anhang II von MARPOL 73/78	Nicht anwendbar, basiert auf den vorhandenen Angaben

## Luft (ICAO-TI/IATA-DGR)

14.1. UN-Nummer	
UN-Nummer	1193
14.2. Ordnungsgemäße UN-Versandbezeichnung	
Ordnungsgemäße Versandbezeichnung	ethyl methyl ketone
14.3. Transportgefahrenklassen	
Klasse	3
14.4. Verpackungsgruppe	
Verpackungsgruppe	II
Gefahrzettel	3
14.5. Umweltgefahren	
Kennzeichen für umweltgefährdende Stoffe	nein
14.6. Besondere Vorsichtsmaßnahmen für den Verwender	
Sondervorschriften	
Passagier- und Fracht-Flugzeug	
Begrenzte Mengen: höchstzulässige Gesamtmenge je Verpackung	1 L

## ABSCHNITT 15: Rechtsvorschriften

### 15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

#### Europäische Gesetzgebung:

FOV-Gehalt Richtlinie 2010/75/EU

FOV-Gehalt	Bemerkung
100 %	

Richtlinie 2012/18/EU (Seveso III)

Schwellenwerte unter speziellen Umständen

Stoff oder Kategorie	Spezielle Umstände	Untere Stufe (Tonnen)	Obere Stufe (Tonnen)	Gruppe	Für diesen Stoff oder dieses Gemisch muss die Summenregel angewendet werden für:
P5a ENTZÜNDBARE FLÜSSIGKEITEN	Auf einer Temperatur über dem Siedepunkt gehalten	10	50	Keine	Entflammbarkeit

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P5b ENTZÜNDBARE FLÜSSIGKEITEN	Besondere Verarbeitungsbedingungen wie hoher Druck oder hohe Temperatur können zu Gefahren schwerer Unfälle führen	50	200	Keine	Entflammbarkeit
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Schwellenwerte unter normalen Umständen

Stoff oder Kategorie	Untere Stufe (Tonnen)	Obere Stufe (Tonnen)	Gruppe	Für diesen Stoff oder dieses Gemisch muss die Summenregel angewendet werden für:
P5c ENTZÜNDBARE FLÜSSIGKEITEN	5000	50000	Keine	Entflammbarkeit

## REACH Anhang XVII - Restriktion

Unterliegt den Beschränkungen in Anhang XVII der Verordnung (EG) Nr. 1907/2006: Beschränkungen der Herstellung, des Inverkehrbringens und der Verwendung bestimmter gefährlicher Stoffe, Gemische und Erzeugnisse.

	Bezeichnung des Stoffes, der Stoffgruppen oder der Zubereitungen	Beschränkungsbedingungen
· MEGACLEAN	Flüssige Stoffe oder Gemische, die Kriterien für eine der folgenden in Anhang I der Verordnung (EG) Nr. 1272/2008 dargelegten Gefahrenklassen oder -kategorien erfüllen: a) Gefahrenklassen 2.1 bis 2.4, 2.6 und 2.7, 2.8 Typen A und B, 2.9, 2.10, 2.12, 2.13 Kategorien 1 und 2, 2.14 Kategorien 1 und 2, 2.15 Typen A bis F; b) Gefahrenklassen 3.1 bis 3.6, 3.7 Beeinträchtigung der Sexualfunktion und Fruchtbarkeit sowie der Entwicklung, 3.8 ausgenommen narkotisierende Wirkungen, 3.9 und 3.10; c) Gefahrenklasse 4.1; d) Gefahrenklasse 5.1.	1. Dürfen nicht verwendet werden — in Dekorationsgegenständen, die zur Erzeugung von Licht- oder Farbeffekten (durch Phasenwechsel), z.B. in Stimmungslampen und Aschenbechern, bestimmt sind; — in Scherzspielen; — in Spielen für einen oder mehrere Teilnehmer oder in Erzeugnissen, die zur Verwendung als solche, auch zur Dekoration, bestimmt sind. 2. Erzeugnisse, die Absatz 1 nicht erfüllen, dürfen nicht in Verkehr gebracht werden. 3. Dürfen nicht in Verkehr gebracht werden, wenn sie einen Farbstoff außer aus steuerlichen Gründen und/oder ein Parfüm enthalten, sofern — sie als für die Abgabe an die breite Öffentlichkeit bestimmter Brennstoff in dekorativen Öllampen verwendet werden können und — ihre Aspiration als gefährlich eingestuft ist und sie mit H304 gekennzeichnet sind. 4. Für die Abgabe an die breite Öffentlichkeit bestimmte dekorative Öllampen dürfen nicht in Verkehr gebracht werden, es sei denn, sie erfüllen die vom Europäischen Komitee für Normung (CEN) verabschiedete europäische Norm für dekorative Öllampen (EN 14059). 5. Unbeschadet der Durchführung anderer Gemeinschaftsbestimmungen über die Einstufung, Verpackung und Kennzeichnung gefährlicher Stoffe und Gemische stellen die Lieferanten vor dem Inverkehrbringen sicher, dass folgende Anforderungen erfüllt sind: a) Mit H304 gekennzeichnete und für die Abgabe an die breite Öffentlichkeit bestimmte Lampenöle tragen gut sichtbar, leserlich und unverwischbar folgende Aufschriften: ‚Mit dieser Flüssigkeit gefüllte Lampen sind für Kinder unzugänglich aufzubewahren‘ sowie ab dem 1. Dezember 2010 ‚Bereits ein kleiner Schluck Lampenöl — oder auch nur das Saugen an einem Lampendocht — kann zu einer lebensbedrohlichen Schädigung der Lunge führen‘. b) Mit H304 gekennzeichnete und für die Abgabe an die breite Öffentlichkeit bestimmte flüssige Grillanzünder tragen ab dem 1. Dezember 2010 leserlich und unverwischbar folgende Aufschrift: ‚Bereits ein kleiner Schluck Grillanzünder kann zu einer lebensbedrohlichen Schädigung der Lunge führen‘. c) Mit H304 gekennzeichnete und für die Abgabe an die breite Öffentlichkeit bestimmte Lampenöle und Grillanzünder werden ab dem 1. Dezember 2010 in schwarzen undurchsichtigen Behältern mit höchstens 1 Liter Füllmenge abgepackt.
· MEGACLEAN	Stoffe, die als entzündbare Gase der Kategorien 1 oder 2, als entzündbare Flüssigkeiten der Kategorien 1, 2 oder 3, als entzündbare Feststoffe der Kategorie 1 oder 2, als Stoffe und Gemische, die bei Berührung mit Wasser entzündbare Gase entwickeln, der Kategorien 1, 2 oder 3, als selbstentzündliche (pyrophore) Flüssigkeiten der Kategorie 1 oder als selbstentzündliche (pyrophore) Feststoffe der Kategorie 1 eingestuft wurden, und zwar unabhängig davon, ob sie in Anhang VI Teil 3 dieser Verordnung aufgeführt sind.	1. Dürfen weder als Stoff noch als Gemisch in Aerosolpackungen verwendet werden, die dazu bestimmt sind, für Unterhaltungs- und Dekorationszwecke an die breite Öffentlichkeit abgegeben zu werden, wie z. B. für — Dekorationen mit metallischen Glanzeffekten, insbesondere für Festlichkeiten, — künstlichen Schnee und Reif, — unanständige Geräusche, — Luftschlangen, — Scherzkekreme, — Horntöne für Vergnügungen, — Schäume und Flocken zu Dekorationszwecken, — künstliche Spinnweben, — Stinkbomben. 2. Unbeschadet der Anwendung sonstiger gemeinschaftlicher Vorschriften auf dem Gebiet der Einstufung, Verpackung und Etikettierung von Stoffen muss der Lieferant vor dem Inverkehrbringen gewährleisten, dass die Verpackung der oben genannten Aerosolpackungen gut sichtbar, leserlich und unverwischbar mit folgender Aufschrift versehen ist: ‚Nur für gewerbliche Anwender‘. 3. Abweichend davon gelten die Absätze 1 und 2 nicht für die in Artikel 8 Absatz 1 Buchstabe a der Richtlinie 75/324/EWG des Rates genannten Aerosolpackungen. 4. Die in Absatz 1 und 2 genannten Aerosolpackungen dürfen nur in Verkehr gebracht werden, wenn sie den dort aufgeführten Anforderungen entsprechen.
· MEGACLEAN	Stoffe, auf die mindestens einer der folgenden Punkte zutrifft: a) Stoffe mit einer der folgenden Einstufungen in Anhang VI Teil 3 der Verordnung (EG) Nr. 1272/2008: — karzinogener Stoff der Kategorie 1A, 1B oder 2 oder keimzellmutagener Stoffe der Kategorie 1A, 1B oder 2, aber keine solchen Stoffe, deren Einstufung sich auf Wirkungen gründet, die nur nach Exposition durch	Mischungen zu Tätowierzwecken unterliegen den Einschränkungen von Verordnung (EU) 2020/2081

Überarbeitungsgrund: 4, 8, 9, 12

Datum der Erstellung: 2002-11-06

Datum der Überarbeitung: 2022-02-04

Überarbeitungsnummer: 0800

BIG-Nummer: 38712

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# MEGACLEAN

Inhalation auftreten.  
 — reproduktionstoxischer Stoff der Kategorie 1A, 1B oder 2, aber keine solchen Stoffe, deren Einstufung sich auf Wirkungen gründet, die nur nach Exposition durch Inhalation auftreten  
 — hautsensibilisierender Stoff der Kategorie 1, 1A oder 1B  
 — hautätzender Stoff der Kategorie 1, 1A, 1B oder 1C oder hautreizender Stoff der Kategorie 2  
 — schwer augenschädigender Stoff der Kategorie 1 oder augenreizender Stoff der Kategorie 2  
 b) Stoffe, die in Anhang II der Verordnung (EG) Nr. 1223/2009 des Europäischen Parlaments und des Rates aufgeführt sind  
 c) in Anhang IV der Verordnung (EG) Nr. 1223/2009 aufgeführte Stoffe, für die in der Tabelle im genannten Anhang in mindestens einer der Spalten g, h und i eine Bedingung angegeben ist  
 d) Stoffe, die in Anlage 13 dieses Anhangs aufgeführt sind.  
 Die Nebenanforderungen in Spalte 2 Absätze 7 und 8 dieses Eintrags gelten für alle Gemische, die zu Tätowierzwecken verwendet werden, unabhängig davon, ob sie einen Stoff enthalten, der unter die Buchstaben a bis d dieser Spalte des vorliegenden Eintrags fällt.

## Nationale Gesetzgebung Belgien

Keine Daten vorhanden

## Nationale Gesetzgebung Die Niederlande

Waterbezwaarlijkheid	B (5); Algemene Beoordelingsmethodiek (ABM)
Huidopname (wettelijk)	2-Butanon; H

## Nationale Gesetzgebung Frankreich

Risque de pénétration percutanée	Méthyléthylcétone; Risque de pénétration percutanée
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## Nationale Gesetzgebung Deutschland

Lagerklasse (TRGS510)	3: Entzündbare Flüssigkeiten
WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
TA-Luft	5.2.5
TRGS900 - Risiko der Fruchtschädigung	Butanon; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	Butanon; H; Hautresorptiv

## Nationale Gesetzgebung Österreich

besondere Gefahr der Hautresorption	Butanon; H
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## Nationale Gesetzgebung UK

Skin absorption	Butan-2-one (methyl ethyl ketone); Sk
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## Sonstige relevante Daten

Keine Daten vorhanden

## 15.2. Stoffsicherheitsbeurteilung

## ABSCHNITT 16: Sonstige Angaben

### **Vollständiger Wortlaut aller unter Abschnitt 3 aufgeführten H- und EUH-Sätze:**

H225 Flüssigkeit und Dampf leicht entzündbar.  
 H319 Verursacht schwere Augenreizung.  
 H336 Kann Schläfrigkeit und Benommenheit verursachen.  
 EUH066 Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

(*)	SELBSTEINSTUFUNG VON BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europa)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate

Überarbeitungsgrund: 4, 8, 9, 12

Datum der Erstellung: 2002-11-06

Datum der Überarbeitung: 2022-02-04

Überarbeitungsnummer: 0800

BIG-Nummer: 38712

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# MEGACLEAN

LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioakkumulierbar & Toxisch
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

Alle in diesem Sicherheitsdatenblatt enthaltenen Informationen basieren auf den von BIG gelieferten Daten und Mustern. Die Angaben erfolgen nach bestem Wissen und Gewissen und entsprechen dem Kenntnisstand zum Zeitpunkt der Erstellung des Sicherheitsdatenblattes. Das Sicherheitsdatenblatt vermittelt lediglich Anleitungen, wie man die unter Punkt 1 aufgeführten Stoffe/Zubereitungen/Gemische sicher handhabt, verwendet, verbraucht, lagert, transportiert und entsorgt. Zu gegebener Zeit werden neue Sicherheitsdatenblätter erstellt, von denen ausschließlich die jeweils aktuellste Fassung verwendet werden darf. Sofern nicht ausdrücklich anderweitig im Sicherheitsdatenblatt angegeben, gelten die in ihm angegebenen Informationen nicht für die Stoffe/Zubereitungen/Gemische in einer reineren Form, als Mischung mit anderen Stoffen oder in anderer Verarbeitung. Das Sicherheitsdatenblatt spezifiziert nicht die Qualität der betreffenden Stoffe/Zubereitungen/Gemische. Die Einhaltung der im Sicherheitsdatenblatt enthaltenen Anweisungen entbindet den Verbraucher nicht von seiner Pflicht, alle Maßnahmen zu treffen, die der gesunde Menschenverstand sowie die Vorschriften und Empfehlungen diesbezüglich nahelegen oder die auf der Grundlage der konkreten Verwendungsbedingungen notwendig und/oder nützlich sind. BIG garantiert weder die Richtigkeit noch die Vollständigkeit der hier enthaltenen Informationen und kann nicht für etwaige Änderungen durch Dritte haftbar gemacht werden. Das vorliegende Sicherheitsdatenblatt ist ausschließlich für die Verwendung in der Europäischen Union, der Schweiz, Island, Norwegen und Liechtenstein bestimmt. Jede Verwendung außerhalb des Geltungsbereiches erfolgt auf eigene Gefahr. Die Verwendung des vorliegenden Sicherheitsdatenblattes unterliegt den in Ihrer BIG-Lizenzvereinbarung enthaltenen Lizenz- und Haftungsbeschränkungsbestimmungen oder – wenn diese nicht anzuwenden sind – den allgemeinen Bestimmungen von BIG. Alle mit diesem Sicherheitsdatenblatt verbundenen geistigen Eigentumsrechte sind Eigentum von BIG; die Verteilungs- und Reproduktionsrechte sind eingeschränkt. Einzelheiten entnehmen Sie bitte der genannten Vereinbarung bzw. den Bestimmungen.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES01: Manufacture of substance - Industrial
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3, SU8, SU9 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental release categories:</b> ERC 1, ERC 4
<b>Scope of the process</b>	Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of worker exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other given operational conditions affecting workers exposure.</b>	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.



# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES02: Use as an intermediate - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3, SU8, SU9 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental release categories:</b> ERC 6A		
<b>Scope of the process</b>	Use of substance as an intermediate (not related to strictly controlled conditions). Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use/exposure</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES03: Distribution of substance - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3, SU8, SU9 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 <b>Environmental release categories:</b> ERC 1, ERC 2, ERC 3, ERC 4, ERC 5, ERC 6A, ERC 7		
<b>Scope of the process</b>	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use/exposure</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	Clear transfer lines prior to de-coupling. No other specific measures identified.
Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Bulk transfers (open systems)	No other specific measures identified.
Bulk transfers (closed systems)	No other specific measures identified.
Drum and small package filling	Fill containers/cans at dedicated fill points supplied with local extract ventilation.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.
Storage	No other specific measures identified.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES04: Formulation & (re)packaging of substances and mixtures - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3, SU 10 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 <b>Environmental release categories:</b> ERC 2		
<b>Scope of the process</b>	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Batch processes at elevated temperatures (closed systems)	No other specific measures identified.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Process sampling	No other specific measures identified.
Laboratory activities	No other specific measures identified.
Bulk transfers	No other specific measures identified.
Mixing operations (open systems)	Provide extract ventilation to points where emissions occur. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Transfer from/pouring from containers	Use drum pumps or carefully pour from container.
Drum/batch transfers	Use drum pumps or carefully pour from container.
Production or preparation of articles by tableting, compression, extrusion or pelletisation.	Provide extract ventilation to points where emissions occur. or Wear a respirator conforming to EN140 with Type A filter or better.
Drum and small package filling	Fill containers/cans at dedicated fill points supplied with local extract ventilation.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.
Storage	Store the substance in a closed system. Transfer via enclosed lines. Locate bulk storage outdoors.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 - Environment**

No exposure assessment presented for the environment.



# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES05: Uses in coatings - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15 <b>Environmental release categories:</b> ERC 4		
<b>Scope of the process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use/exposure</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (closed systems) with sample collection	Ensure material transfers are under containment or extract ventilation.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Film formation - air drying (closed systems)	Ensure material transfers are under containment or extract ventilation.
Mixing operations (closed systems)	Ensure material transfers are under containment or extract ventilation.
Film formation - air drying (open systems)	Provide extract ventilation to points where emissions occur.
Preparation of material for application Mixing operations (open systems)	Provide extract ventilation to points where emissions occur.
Spraying (automatic/robotic)	Carry out in a vented booth provided with laminar airflow.
Manual spraying	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with Type A filter or better.
Material transfers	Provide extract ventilation to points where emissions occur. or Avoid carrying out activities involving exposure for more than 1 hour.
Roller, spreader, flow application	Use ventilation to extract vapours from freshly coated articles/objects and surfaces.
Dipping, immersion and pouring	Provide extract ventilation to points where emissions occur. Avoid manual contact with wet work pieces.
Laboratory activities	Provide extract ventilation to points where emissions occur.
Material transfers Drum/batch transfers Transfer from/pouring from containers	Ensure material transfers are under containment or extract ventilation.
Production or preparation of articles by tableting, compression, extrusion or pelletisation.	Provide extract ventilation to points where emissions occur.
Storage	Store the substance in a closed system.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

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<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	
<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	
<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES06: Uses in coatings - Professional		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 22 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 <b>Environmental release categories:</b> ERC 8A, ERC 8D		
<b>Scope of the process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (closed systems) with occasional controlled	No other specific measures identified.

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exposure.	
Filling / preparation of equipment from drums or containers	Ensure material transfers are under containment or extract ventilation.
Preparation of material for application (closed systems)	No other specific measures identified.
Film formation - air drying Outdoor.	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Film formation - air drying Indoor.	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Provide extract ventilation to points where emissions occur.
Preparation of material for application (open systems) Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Preparation of material for application (open systems) Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.
Material transfers Drum/batch transfers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Roller, spreader, flow application Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Roller, spreader, flow application Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.
Manual Spraying Indoor	Carry out in a vented booth or extracted enclosure. Wear a respirator conforming to EN140 with Type A filter or better.

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Manual spraying Outdoor.	Avoid carrying out activities involving exposure for more than 4 hours. Wear a respirator conforming to EN140 with Type A filter or better.
Dipping, immersion and pouring Indoor	Provide extract ventilation to points where emissions occur. Avoid manual contact with wet work pieces.
Dipping, immersion and pouring Outdoor.	Avoid manual contact with wet work pieces.
Laboratory activities	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Manual application - Fingerpaints, pastels, adhesives Indoor	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear a respirator conforming to EN140 with Type A filter or better.
Manual application - Fingerpaints, pastels, adhesives Outdoor.	Wear a respirator conforming to EN140 with Type A filter or better.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>
No exposure assessment presented for the environment.

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 - Environment</b>
No exposure assessment presented for the environment.

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### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES07: Uses in cleaning agents - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 <b>Environmental release categories:</b> ERC 4		
<b>Scope of the process</b>	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers Dedicated facility	Avoid carrying out activities involving exposure for more than 1 hour.
Automated process with (semi) closed systems Use in contained systems	Avoid carrying out activities involving exposure for more than 4 hours.

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Drum/batch transfers	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Application of cleaning products in closed systems	Avoid carrying out activities involving exposure for more than 4 hours.
Filling / preparation of equipment from drums or containers	Ensure material transfers are under containment or extract ventilation.
Use in contained batch processes	Provide extract ventilation to points where emissions occur.
Degreasing small objects in cleaning station	Provide extract ventilation to points where emissions occur.
Cleaning with low pressure washers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning with high pressure washers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning No spraying	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>
No exposure assessment presented for the environment.



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SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>
<b>Title</b>	ES08: Uses in cleaning agents - Professional	
<b>Use descriptor</b>	<b>Sector of use:</b> SU 22 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 10, PROC 11, PROC 13, PROC 8a, PROC 8b <b>Environmental release categories:</b> ERC 8A, ERC 8B	
<b>Scope of the process</b>	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional information</b>	No exposure assessment presented for the environment.	

<b>Section 2.1</b>		<b>Control of worker exposure</b>
<b>Product characteristic</b>		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).	
<b>Frequency and duration of use</b>		
Covers daily exposures up to 8 hours (unless stated differently).		
<b>Other given operational conditions affecting workers exposure.</b>		
Assumes a good basic standard of occupational hygiene is implemented.		

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Filling / preparation of equipment from drums or containers	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Automated process with (semi) closed systems	Avoid carrying out activities involving exposure for more than 4 hours.

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Use in contained systems	
Drum/batch transfers	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Semi automated process. (e.g. semi automatic application of floor care and maintenance products)	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Filling / preparation of equipment from drums or containers.	Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning Dipping, immersion and pouring	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning with low pressure washers Rolling, brushing No spraying	Limit the substance content in the product to 5%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Cleaning with high pressure washers Spraying Indoor	Limit the substance content in the product to 1%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Cleaning with high pressure washers Spraying Outdoor.	Limit the substance content in the product to 1%. Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.
Manual Surfaces cleaning Spraying	Limit the substance content in the product to 25%. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Ad hoc manual application via trigger sprays, dipping, etc.	Limit the substance content in the product to 25%. Provide extract ventilation to points where emissions occur.

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Rolling, brushing	Avoid carrying out operation for more than 4 hour. or Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.
Application of cleaning products in closed systems Outdoor.	Avoid carrying out activities involving exposure for more than 1 hour. or Wear a respirator conforming to EN140 with Type A filter or better.
Cleaning of medical devices	Provide extract ventilation to points where emissions occur. Avoid carrying out activities involving exposure for more than 4 hours. or Wear a respirator conforming to EN140 with Type A filter or better.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>
<b>Title</b>	ES09: Lubricants – Industrial	
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18 <b>Environmental release categories:</b> ERC 4, ERC 7	
<b>Scope of the process</b>	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional information</b>	No exposure assessment presented for the environment.	

<b>Section 2.1</b>		<b>Control of worker exposure</b>
<b>Product characteristic</b>		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).	
<b>Frequency and duration of use/exposure</b>		
Covers daily exposures up to 8 hours (unless stated differently).		
<b>Other given operational conditions affecting workers exposure.</b>		
Assumes a good basic standard of occupational hygiene is implemented.		

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems) with occasional controlled exposure.	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Bulk transfers	No other specific measures identified.

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Filling / preparation of equipment from drums or containers	Transfer via enclosed lines Use drum pumps or carefully pour from container.
Initial factory fill of equipment	Ensure material transfers are under containment or extract ventilation.
Operation and lubrication of high energy open equipment	Restrict area of openings to equipment.
Manual Rolling, brushing	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Treatment by dipping and pouring	Restrict area of openings to equipment.
Spraying	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Maintenance (of larger plant items) and machine set up	Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely. Wear suitable gloves tested to EN374.
Maintenance of small items	Avoid carrying out activities involving exposure for more than 4 hours.
Remanufacture of reject articles	Avoid carrying out activities involving exposure for more than 4 hours.
Storage	No other specific measures identified.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.	

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Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 - Environment**

No exposure assessment presented for the environment.

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### Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
<b>Title</b>	ES10: Metal working fluids / rolling oils - Industrial	
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17 <b>Environmental release categories:</b> ERC 4	
<b>Scope of the process</b>	Covers the use in formulated MWFs/rolling oils within closed or contained systems including incidental exposures during transfer operations, rolling and annealing activities, cutting/machining activities, automated application of corrosion protections, equipment maintenance, draining and disposal of waste oils.	

SECTION 2		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.	

Section 2.1		Control of worker exposure
<b>Product characteristic</b>		
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.	
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).	
<b>Frequency and duration of use</b>		
Covers daily exposures up to 8 hours (unless stated differently).		
<b>Other given operational conditions affecting workers exposure.</b>		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
General exposure (closed systems)	No other specific measures identified.
General exposure (open systems)	No other specific measures identified.
Bulk transfers	Provide enhanced general ventilation by mechanical means. or



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	Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 1 hour. Clear transfer lines prior to de-coupling.
Filling / preparation of equipment from drums or containers	Use drum pumps or carefully pour from container.
Process sampling	Use dedicated equipment.
Metal working activities	Provide extract ventilation to points where emissions occur. Restrict area of openings to equipment.
Treatment by dipping and pouring	Provide enhanced general ventilation by mechanical means.
Spraying	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Manual rolling, brushing	Provide enhanced general ventilation by mechanical means.
Automated metal rolling/forming	Handle substance within a predominantly closed system provided with extract ventilation. Provide extract ventilation to points where emissions occur.
Semi-automated metal rolling/forming	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Equipment cleaning and maintenance Dedicated facility	No other specific measures identified.
Equipment cleaning and maintenance Non-dedicated facility	Provide enhanced general ventilation by mechanical means. Drain or remove substance from equipment prior to break-in or maintenance.
Storage	Store the substance in a closed system. Transfer via enclosed lines

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

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<b>Section 3.2 - Environment</b>
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No exposure assessment presented for the environment.
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<b>SECTION 4</b>
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<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
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<b>Section 4.1 - Health</b>
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Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.
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<b>Section 4.2 - Environment</b>
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No exposure assessment presented for the environment.
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### Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES11: Use in agrochemicals - Professional
<b>Use descriptor</b>	<b>Sector of use:</b> SU 22 <b>Process categories:</b> PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13 <b>Environmental release categories:</b> ERC 8A, ERC 8D
<b>Scope of the process</b>	Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of worker exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other given operational conditions affecting workers exposure.</b>	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Transfer from/pouring from containers	Ensure operation is undertaken outdoors.
Mixing in containers.	Ensure operation is undertaken outdoors.
Spraying/fogging by manual application	Wear a full face respirator conforming to EN136 with Type A filter or better.
Spraying/fogging by machine application	Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20.
Ad hoc manual	Wear suitable gloves tested to EN374.

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application via trigger sprays, dipping, etc.	Wear a respirator conforming to EN140 with Type A filter or better.
Equipment cleaning and maintenance	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Avoid carrying out activities involving exposure for more than 1 hour.
Disposal of waste	Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374. Avoid carrying out activities involving exposure for more than 1 hour.
Storage	Store the substance in a closed system.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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### Exposure scenario – worker

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES12: Use as a fuel - Industrial		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 <b>Environmental release categories:</b> ERC 7		
<b>Scope of the process</b>	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of worker exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).		
<b>Frequency and duration of use</b>			
Covers daily exposures up to 8 hours (unless stated differently).			
<b>Other given operational conditions affecting workers exposure.</b>			
Assumes a good basic standard of occupational hygiene is implemented.			

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers	Transfer via enclosed lines Clear transfer lines prior to de-coupling.
Drum/batch transfers	Use drum pumps or carefully pour from container.
General exposure (closed systems)	No other specific measures identified.
Use as a fuel (closed systems)	No other specific measures identified.
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance.

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

Storage	Store the substance in a closed system. Transfer via enclosed lines Ensure operation is undertaken outdoors.
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<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>	
<b>Title</b>	<b>TITLE EXPOSURE SCENARIO</b> ES13: Use as a fuel - Professional
<b>Use descriptor</b>	<b>Sector of use:</b> SU 22 <b>Process categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 <b>Environmental release categories:</b> ERC 9A, ERC 9B
<b>Scope of the process</b>	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

<b>SECTION 2</b>	
<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	
<b>Control of worker exposure</b>	
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other given operational conditions affecting workers exposure.</b>	
Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Bulk transfers	Transfer via enclosed lines Clear transfer lines prior to de-coupling.
Drum/batch transfers	Use drum pumps or carefully pour from container. Avoid spillage when withdrawing pump.
Refuelling	Use drum pumps or carefully pour from container. Avoid spillage when withdrawing pump.
General exposure (closed systems)	No other specific measures identified.
Use as a fuel	No other specific measures identified.

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## MEGACLEAN

(closed systems)	
Equipment cleaning and maintenance	Drain down and flush system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle.
Storage	Store the substance in a closed system.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	



# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

### Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES14: Use in laboratories - Industrial
<b>Use descriptor</b>	<b>Sector of use:</b> SU 3 <b>Process categories:</b> PROC 10, PROC 15 <b>Environmental release categories:</b> ERC 2, ERC 4
<b>Scope of the process</b>	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of worker exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other given operational conditions affecting workers exposure.</b>	
Assumes a good basic standard of occupational hygiene is implemented.	

Contributing scenarios	Risk management measures
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Laboratory activities	No other specific measures identified.
Cleaning	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Ensure the ventilation system is regularly maintained and tested.

Section 2.2	Environmental exposure controls
No exposure assessment presented for the environment.	

SECTION 3	EXPOSURE ESTIMATION
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

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<b>Section 3.2 - Environment</b>
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No exposure assessment presented for the environment.
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<b>SECTION 4</b>
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<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
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<b>Section 4.1 - Health</b>
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Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.
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<b>Section 4.2 - Environment</b>
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No exposure assessment presented for the environment.
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## MEGACLEAN

### Exposure scenario – worker

<b>SECTION 1</b>	<b>TITLE EXPOSURE SCENARIO</b>
<b>Title</b>	ES15: Use in laboratories - Professional
<b>Use descriptor</b>	<b>Sector of use:</b> SU 22 <b>Process categories:</b> PROC 10, PROC 15 <b>Environmental release categories:</b> ERC 8A
<b>Scope of the process</b>	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of worker exposure</b>
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
<b>Concentration of substance in product.</b>	Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other given operational conditions affecting workers exposure.</b>	
Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing scenarios</b>	<b>Risk management measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct contact of product with the eyes, also via contamination on hands.
Laboratory activities	No other specific measures identified.
Cleaning	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour. Ensure the ventilation system is regularly maintained and tested.

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

used unless otherwise indicated.

### **Section 3.2 - Environment**

No exposure assessment presented for the environment.

### **SECTION 4**

#### **GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO**

### **Section 4.1 - Health**

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 - Environment**

No exposure assessment presented for the environment.

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## MEGACLEAN

### Exposure scenario – consumer

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES16: Uses in coatings - consumer		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 21 <b>Product categories:</b> PC1, PC4, PC8 (binding agents only), PC9a, PC9b, PC15, PC18, PC23, PC24, PC31, PC34 <b>Environmental release categories:</b> ERC 8A, ERC 8D		
<b>Scope of the process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of consumer exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP		
<b>Concentration of substance in product.</b>			
	Unless otherwise indicated.		
	Covers concentrations up to (%): 100%		
<b>Amounts used</b>			
Unless otherwise indicated.			
For each use event, covers use amounts up to (g):		13,800	
Covers skin contact area up to (cm <sup>2</sup> ):		857.5	
<b>Frequency and duration of use/exposure</b>			
Unless otherwise indicated.			
Covers use up to (times/day of use):		1	
Covers use up to (hours/event):		6	
<b>Other given operational conditions affecting user exposure</b>			
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.			

<b>Product categories</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30%		
	Covers use up to 365 days/year		
	Covers use up to 1 time/day		

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

	Covers skin contact area up to 35.73 cm <sup>2</sup>
	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 4 hours/event
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue)	Covers concentrations up to 30%
	Covers use up to 1 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 110.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray	Covers concentrations up to 30%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm <sup>2</sup>
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Sealants	Covers concentrations up to 20%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm <sup>2</sup>
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 1.00 hours/event
Anti-freeze and de-icing products. Washing car windows	Covers concentrations up to 1%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 0.5 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. 34 m <sup>3</sup>
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.02 hours/event
Anti-freeze and de-icing products. Pouring into radiator	Covers concentrations up to 10%
	Covers use up to 365 days/year

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## MEGACLEAN

	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm <sup>2</sup>
	For each use event, covers use amounts up to 2,000 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. 34 m <sup>3</sup>
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Biocidal products (e.g. disinfectants, pest control) cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) PC8 (binding agents only)	Covers concentrations up to 5%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Biocidal products (e.g. disinfectants, pest control) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) PC8 (binding agents only)	Covers concentrations up to 15%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm <sup>2</sup>
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>3</sup>
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m <sup>3</sup>

# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Fillers and putty	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm <sup>3</sup>
	For each use event, covers use amounts up to 85 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 4 hours/event
Fillers and putty Plasters and floor equalizers	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Non-metal-surface treatment products Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%
	Covers use up to 6 days/year



# Annex to the extended Safety Data Sheet (eSDS)

## MEGACLEAN

	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>2</sup>
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Non-metal-surface treatment products Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Ink and toners	Covers concentrations up to 10%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 71.40 cm <sup>2</sup>
	For each use event, covers use amounts up to 40 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.20 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 1.23 hours/event
Leather tanning,	Covers concentrations up to 50%

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## MEGACLEAN

dye, finishing, impregnation and care products Polishes, spray (furniture, shoes)	
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 100%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m <sup>3</sup>
Lubricants, greases and release products Sprays	Covers concentrations up to 50%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>2</sup>
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 1.23 hours/event
Polishes and wax blends Polishes, spray (furniture,	Covers concentrations up to 50%

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shoes)	
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Textile dyes, finishing and impregnating products; including bleaches and other processing aids	Covers concentrations up to 10%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to (g): 115 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 1.00 hours/event

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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## MEGACLEAN

### Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES17: Uses in cleaning agents - consumer
<b>Use descriptor</b>	<b>Sector of use:</b> SU 21 <b>Product categories:</b> PC9a, PC9b, PC24, PC35 <b>Environmental release categories:</b> ERC 8A, ERC 8D
<b>Scope of the process</b>	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
<b>Concentration of substance in product.</b>	Unless otherwise indicated.
	Covers concentrations up to (%): 50%
<b>Amounts used</b>	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	13,800
Covers skin contact area up to (cm <sup>2</sup> ):	857.5
<b>Frequency and duration of use/exposure</b>	
Unless otherwise indicated.	
Covers use up to (times/day of use):	0.35
Covers use up to (hours/event):	2.2
<b>Other given operational conditions affecting user exposure</b>	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint	Covers concentrations up to 27.5%
	Covers use up to 6 days/year

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	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>2</sup>
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can	Covers concentrations up to 50%
	Covers use up to 2 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover)	Covers concentrations up to 50%
	Covers use up to 3 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Fillers and putty Plasters and floor equalizers	Covers concentrations up to 2%
	Covers use up to 12 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 50%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm <sup>2</sup>
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.17 hours/event

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Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm <sup>2</sup>
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m <sup>3</sup>
Lubricants, greases and release products Sprays	Covers concentrations up to 20%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>2</sup>
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)	Covers concentrations up to 5%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.33 hours/event
Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)	Covers concentrations up to 15%
	Covers use up to 128 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm <sup>2</sup>
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.17 hours/event

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
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### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.

### Section 3.2 - Environment

No exposure assessment presented for the environment.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 - Environment

No exposure assessment presented for the environment.

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## MEGACLEAN

### Exposure scenario – consumer

<b>SECTION 1</b>		<b>TITLE EXPOSURE SCENARIO</b>	
<b>Title</b>	ES18: Lubricants – consumer		
<b>Use descriptor</b>	<b>Sector of use:</b> SU 21 <b>Product categories:</b> PC1, PC24, PC31 <b>Environmental release categories:</b> ERC 8A, ERC 8D, ERC 9A, ERC 9B		
<b>Scope of the process</b>	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.		

<b>SECTION 2</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
<b>Additional information</b>	No exposure assessment presented for the environment.		

<b>Section 2.1</b>		<b>Control of consumer exposure</b>	
<b>Product characteristic</b>			
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP		
<b>Concentration of substance in product.</b>	Unless otherwise indicated.		
	Covers concentrations up to (%): 100%		
<b>Amounts used</b>			
Unless otherwise indicated.			
For each use event, covers use amounts up to (g):	6,390		
Covers skin contact area up to (cm <sup>2</sup> ):	468		
<b>Frequency and duration of use/exposure</b>			
Unless otherwise indicated.			
Covers use up to (times/day of use):	1		
Covers use up to (hours/event):	6		
<b>Other given operational conditions affecting user exposure</b>			
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.			

<b>Product categories</b>		<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>	
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30%		
	Covers use up to 365 days/year		
	Covers use up to 1 time/day		
	Covers skin contact area up to 35.73 cm <sup>2</sup>		



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	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue)	Covers concentrations up to 30%
	Covers use up to 1 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 110.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray	Covers concentrations up to 30%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm <sup>2</sup>
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Plasters and floor equalizers Sealants	Covers concentrations up to 25%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 35.73 cm <sup>2</sup>
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 1.00 hours/event
Lubricants, greases and release products Liquids	Covers concentrations up to 100%
	Covers use up to 4 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm <sup>2</sup>
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Lubricants, greases and release products Pastes	Covers concentrations up to 20%
	Covers use up to 10 days/year

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	Covers use up to 1 time/day
	Covers skin contact area up to 468 cm <sup>2</sup>
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m <sup>3</sup>
Lubricants, greases and release products Sprays	Covers concentrations up to 50%
	Covers use up to 6 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm <sup>2</sup>
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 29 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 1.23 hours/event
Polishes and wax blends Polishes, spray (furniture, shoes)	Covers concentrations up to 50%
	Covers use up to 8 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 430.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.33 hours/event

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the	

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risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 - Environment**

No exposure assessment presented for the environment.

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### Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES19: Use in agrochemicals - consumer
<b>Use descriptor</b>	<b>Sector of use:</b> SU 21 <b>Product categories:</b> PC12, PC27 <b>Environmental release categories:</b> ERC 8A, ERC 8D
<b>Scope of the process</b>	Covers the consumer use in agrochemicals in liquid and solid forms.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
<b>Concentration of substance in</b>	Unless otherwise indicated.
	Covers concentrations up to (%): 4%
<b>Amounts used</b>	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	50
Covers skin contact area up to (cm <sup>2</sup> ):	857.5
<b>Frequency and duration of use/exposure</b>	
Unless otherwise indicated.	
Covers use up to (times/day of use):	1
Covers use up to (hours/event):	0.5
<b>Other given operational conditions affecting user exposure</b>	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Fertilizers Lawn and garden preparations	Covers concentrations up to 4%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 0.3 g
	For each use event, covers use amounts up to 50 g

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	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.50 hours/event
Plant protection products	Covers concentrations up to 42.5%
	Covers use up to 365 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 857.50 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 0.3 g
	For each use event, covers use amounts up to 50 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.50 hours/event

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
<p>Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.</p>	

<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	

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### Exposure scenario – consumer

SECTION 1	TITLE EXPOSURE SCENARIO
<b>Title</b>	ES20: Use as a fuel - consumer
<b>Use descriptor</b>	<b>Sector of use:</b> SU 21 <b>Product categories:</b> PC13 <b>Environmental release categories:</b> ERC 9A, ERC 9B
<b>Scope of the process</b>	Covers consumer uses in liquid fuels.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
<b>Additional information</b>	No exposure assessment presented for the environment.

Section 2.1	Control of consumer exposure
<b>Product characteristic</b>	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
<b>Concentration of substance in product.</b>	Unless otherwise indicated.
	Covers concentrations up to (%): 100%
<b>Amounts used</b>	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	37,500
Covers skin contact area up to (cm <sup>2</sup> ):	420
<b>Frequency and duration of use/exposure</b>	
Unless otherwise indicated.	
Covers use up to (times/day of use):	0.143
Covers use up to (hours/event):	2
<b>Other given operational conditions affecting user exposure</b>	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

Product categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Fuels Liquid: Automotive refuelling	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 37,500 g
	Covers outdoor use.
	Covers use in room size of 100 m <sup>3</sup>
	Covers exposure up to 0.05 hours/event

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Fuels Liquid: scooter refuelling	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 3,750 g
	Covers outdoor use.
	Covers use in room size of 100 m <sup>3</sup>
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Garden equipment - use	Covers concentrations up to 100%
	Covers use up to 26 days/year
	Covers use up to 1 time/day
	For each use event, covers use amounts up to 750 g
	Covers outdoor use.
	Covers use in room size of 100 m <sup>3</sup>
	Covers exposure up to 2.00 hours/event
Fuels Liquid: Garden equipment - refuelling	Covers concentrations up to 100%
	Covers use up to 26 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 420.00 cm <sup>2</sup>
	For each use event, covers use amounts up to 750 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Lamp oil	Covers concentrations up to 100%
	Covers use up to 52 days/year
	Covers use up to 1 time/day
	Covers skin contact area up to 210.00 cm <sup>3</sup>
	For each use event, covers use amounts up to 100 g
	Covers use in room size of 20m <sup>3</sup>
	Covers exposure up to 0.01 hours/event

<b>Section 2.2</b>	<b>Environmental exposure controls</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 - Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE</b>
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## MEGACLEAN

EXPOSURE SCENARIO	
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, users should ensure that risks are managed to at least equivalent levels.	
<b>Section 4.2 - Environment</b>	
No exposure assessment presented for the environment.	