

FICHE DE DONNÉES DE SÉCURITÉ

Basée sur Règlement (CE) n° 1907/2006, comme modifié par Règlement (UE) n° 2020/878



MEGACLEAN

RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

1.1. Identificateur de produit

Nom de produit : MEGACLEAN
Numéro d'enregistrement REACH : 01-2119457290-43
Type de produit REACH : Substance/mono-composant
Numéro CAS : 78-93-3
Numéro index CE : 606-002-00-3
Numéro CE : 201-159-0
Masse moléculaire : 72.11 g/mol
Formule : C4H8O

1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

1.2.1 Utilisations identifiées pertinentes

Titre de scénario d'exposition	Étape du cycle de vie	Descripteurs d'utilisation (PROC ou PC)	Descripteurs d'utilisation (ERC)
ES01 Fabrication de substance	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 4
ES02 Utilisation comme intermédiaire	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 6a
ES03 Distribution de substance	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a

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ES03 Distribution de substance	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 1
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 3
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 4
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 5
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 6a
	Industriel	PROC 1, PROC 15, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9	ERC 7
ES04 Formulation et (re)conditionnement des substances et mélanges	Industriel	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
	Industriel	PROC 1, PROC 14, PROC 15, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9	ERC 2
ES05 Utilisation dans les revêtements	Industriel	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 Utilisation dans les revêtements	Professionnel	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
	Professionnel	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 Utilisation dans les agents nettoyants	Industriel	PROC 1, PROC 10, PROC 13, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b	ERC 4
ES08 Utilisation dans les agents nettoyants	Professionnel	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Professionnel	PROC 1, PROC 10, PROC 11, PROC 13, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b	ERC 8b
ES09 Lubrifiants	Industriel	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
	Industriel	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 Fluides métallurgiques/huiles pour roulements	Industriel	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 Utilisation dans les produits agrochimiques	Professionnel	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8a
	Professionnel	PROC 1, PROC 11, PROC 13, PROC 2, PROC 4, PROC 8a, PROC 8b	ERC 8d
ES12 Utilisation comme carburant	Industriel	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 7
ES13 Utilisation comme carburant	Professionnel	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9a
	Professionnel	PROC 1, PROC 16, PROC 2, PROC 3, PROC 8a, PROC 8b	ERC 9b
ES14 Utilisation en laboratoire	Industriel	PROC 10, PROC 15	ERC 2
	Industriel	PROC 10, PROC 15	ERC 4
ES15 Utilisation en laboratoire	Professionnel	PROC 10, PROC 15	ERC 8a
ES16 Utilisation dans les revêtements	Par les consommateurs	PC 1, PC 15, PC 18, PC 23, PC 24, PC 31, PC 34, PC 4, PC 8, PC 9a, PC 9b	ERC 8a
	Par les consommateurs	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 Utilisation dans les agents nettoyants	Par les	PC 24, PC 35, PC 9a, PC 9b	ERC 8a
	Par les	PC 24, PC 35, PC 9a, PC 9b	ERC 8d
ES18 Lubrifiants	Par les	PC 1, PC 24, PC 31	ERC 8a
	Par les	PC 1, PC 24, PC 31	ERC 8d
	Par les	PC 1, PC 24, PC 31	ERC 9a

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ES18 Lubrifiants	Par les	PC 1, PC 24, PC 31	ERC 9b
ES19 Utilisation dans les produits agrochimiques	Par les	PC 12, PC 27	ERC 8a
	Par les	PC 12, PC 27	ERC 8d
ES20 Utilisation comme carburant	Par les	PC 13	ERC 9a
	Par les	PC 13	ERC 9b

1.2.2 Utilisations déconseillées

Groupe	Utilisations déconseillées	Descripteurs d'utilisation (PC)	Catégorie de rejet dans l'environnement (ERC)	Article (AC)
Industriel	Aucune utilisation déconseillée			
Professionnel	Aucune utilisation déconseillée			

1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Fournisseur de la fiche de données de sécurité

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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.

Fabricant du produit

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

1.4. Numéro d'appel d'urgence

24h/24h (Consultation téléphonique: anglais, français, allemand, néerlandais) :
+32 14 58 45 45 (BIG)

RUBRIQUE 2: Identification des dangers

2.1. Classification de la substance ou du mélange

Classé comme dangereux selon les critères du Règlement (CE) n° 1272/2008

Classe	Catégorie	Mentions de danger
Flam. Liq.	catégorie 2	H225: Liquide et vapeurs très inflammables.
Eye Irrit.	catégorie 2	H319: Provoque une sévère irritation des yeux.
STOT SE	catégorie 3	H336: Peut provoquer somnolence ou vertiges.

2.2. Éléments d'étiquetage



Contient: méthyléthylcétone.

Mention d'avertissement Danger

Phrases H

H225 Liquide et vapeurs très inflammables.
H319 Provoque une sévère irritation des yeux.
H336 Peut provoquer somnolence ou vertiges.

Phrases P

P210 Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.
P280 Porter des gants de protection et un équipement de protection des yeux/du visage.
P304 + P340 EN CAS D'INHALATION: transporter la personne à l'extérieur et la maintenir dans une position où elle peut confortablement respirer.
P303 + P361 + P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés. Rincer la peau à l'eau ou se doucher.
P305 + P351 + P338 EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.
P403 + P233 Stocker dans un endroit bien ventilé. Maintenir le récipient fermé de manière étanche.

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Informations supplémentaires

EUH066

L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

2.3. Autres dangers

Aucun autre danger connu

RUBRIQUE 3: Composition/informations sur les composants

3.1. Substances

Nom REACH n° d'enregistrement	N° CAS N° CE	Conc. (C)	Classification selon CLP	Note	Remarque	Facteurs M et ETA
méthyléthylcétone 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-composant	

(1) Texte intégral des phrases H et EUH: voir rubrique 16

(2) Substance ayant une limite d'exposition professionnelle en vertu des dispositions communautaires

(10) Soumis aux restrictions de l'Annexe XVII du Règlement (CE) n° 1907/2006

3.2. Mélanges

Ne s'applique pas

RUBRIQUE 4: Premiers secours

4.1. Description des premiers secours

Mesures générales:

Veiller à votre (propre) sécurité. Si possible, approcher de la victime et vérifier ses fonctions vitales. En cas de blessure et/ou d'intoxication, appeler le numéro d'urgence européen 112. Traiter les symptômes en commençant par les blessures et les troubles les plus graves. Garder la victime sous observation, possibilité de symptômes différés.

Après inhalation:

Transporter la victime à l'extérieur. En cas de problèmes respiratoires, consulter un médecin/service médical.

Après contact avec la peau:

Si possible, essayer/enlever à sec le produit chimique. Rincer/se doucher immédiatement avec de l'eau (tiède). Si l'irritation persiste, consulter un médecin/service médical.

Après contact avec les yeux:

Rincer immédiatement et abondamment à l'eau. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer. Si l'irritation persiste, consulter un médecin/service médical.

Après ingestion:

Rincer la bouche à l'eau. Si vous ne vous sentez pas bien, consultez un médecin/service médical. Ne pas attendre l'apparition de symptômes pour consulter le centre antipoison.

4.2. Principaux symptômes et effets, aigus et différés

4.2.1 Symptômes aigus

Après inhalation:

Vertiges. Somnolence.

Après contact avec la peau:

APRES EXPOSITION/CONTACT PROLONGE OU REPETE: Peau sèche. Gerçures de la peau.

Après contact avec les yeux:

Irritation du tissu oculaire.

Après ingestion:

Pas d'effets connus.

4.2.2 Symptômes différés

Pas d'effets connus.

4.3. Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

Est repris ci-dessous lorsque disponible et applicable.

RUBRIQUE 5: Mesures de lutte contre l'incendie

5.1. Moyens d'extinction

5.1.1 Moyens d'extinction appropriés:

Petit incendie: Extincteur rapide à poudre ABC, Extincteur rapide à poudre BC, Extincteur rapide à mousse classe B, Extincteur rapide au CO2.

Grand incendie: Mousse classe B (résistant à l'alcool), Eau pulvérisée si la flaque ne peut pas s'étendre.

5.1.2 Moyens d'extinction inappropriés:

Petit incendie: Eau (extincteur rapide, dévidoir); risque d'extension de la flaque.

Grand incendie: Eau; risque d'extension de la flaque.

5.2. Dangers particuliers résultant de la substance ou du mélange

Formation de CO et de CO2 en cas de combustion. En cas d'échauffement: peroxydation entraînant risque d'incendie/explosion accru.

5.3. Conseils aux pompiers

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5.3.1 Instructions:

Refroidir à l'eau les récipients fermés lorsque ceux-ci sont exposés au feu. Ne pas déplacer la cargaison si elle est exposée à la chaleur.

5.3.2 Équipement de protection spécial pour le personnel préposé à la lutte contre le feu:

Gants (EN 374). Lunettes bien ajustables (EN 166). Vêtements de protection (EN 14605 ou EN 13034). Échauffement/feu: appareil respiratoire autonome (EN 136 + EN 137).

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

6.1. Précautions individuelles, équipement de protection et procédures d'urgence

Arrêter les moteurs et interdire de fumer. Ni flammes nues ni étincelles. Appareils et éclairage utilisables en atmosphère explosive.

6.1.1 Équipement de protection pour les non-secouristes

Voir rubrique 8.2

6.1.2 Équipement de protection pour les secouristes

Gants (EN 374). Lunettes bien ajustables (EN 166). Vêtements de protection (EN 14605 ou EN 13034).

Vêtements de protection appropriés

Voir rubrique 8.2

6.2. Précautions pour la protection de l'environnement

Recueillir le produit qui se libère. Endiguer le liquide répandu. Essayer de réduire l'évaporation. Empêcher toute propagation dans les égouts.

6.3. Méthodes et matériel de confinement et de nettoyage

Absorber le liquide répandu dans un matériau inerte. Mettre le produit absorbé dans un récipient qui se referme. Recueillir soigneusement le solide répandu/les restes. Rincer les surfaces souillées abondamment à l'eau. Porter le produit recueilli au fabricant/à une instance compétente. Nettoyer le matériel et les vêtements après le travail.

6.4. Référence à d'autres rubriques

Voir rubrique 13.

RUBRIQUE 7: Manipulation et stockage

Les informations dans cette section sont une description générale. Les scénarios d'exposition figurent en annexe lorsqu'ils sont disponibles et applicables. Utiliser toujours les scénarios d'exposition appropriés correspondant à votre utilisation identifiée

7.1. Précautions à prendre pour une manipulation sans danger

Tenir à l'écart des flammes nues/de la chaleur. Ventilation insuffisante: prendre des mesures contre les charges électrostatiques. Ventilation insuffisante: utiliser des appareils/de l'éclairage anti-étincelles et anti-déflagrants. Ventilation insuffisante: éloigner des flammes nues/étincelles. Gaz/vapeur plus lourde que l'air à 20°C. Observer l'hygiène usuelle. Retirer immédiatement les vêtements contaminés. Avant l'emploi: vérifier si des peroxydes sont présents/les éliminer. Tenir l'emballage bien fermé. Ne pas rejeter les déchets à l'égout.

7.2. Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

7.2.1 Conditions de stockage en sécurité:

Conforme à la réglementation. Conserver à l'abri de la lumière. Conserver le récipient dans un endroit bien ventilé. Local à l'épreuve du feu. Mettre la citerne à la terre. Protéger contre le gel. Conserver à l'abri des rayons solaires directs.

7.2.2 Tenir à l'écart de:

Sources de chaleur, sources d'ignition.

7.2.3 Matériau d'emballage approprié:

Aucun renseignement disponible

7.2.4 Matériau d'emballage inapproprié:

Aucun renseignement disponible

7.3. Utilisation(s) finale(s) particulière(s)

Les scénarios d'exposition figurent en annexe lorsqu'ils sont disponibles et applicables. Voir les informations transmises par le fabricant.

RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

8.1. Paramètres de contrôle

8.1.1 Exposition professionnelle

a) Valeurs limites d'exposition professionnelle

Les valeurs limites sont reprises ci-dessous lorsque disponibles et applicables.

UE

Butanone	Valeur limite d'exposition professionnelle 8h (Valeur limite indicative d'exposition professionnelle)	200 ppm
	Valeur limite d'exposition professionnelle 8h (Valeur limite indicative d'exposition professionnelle)	600 mg/m ³
	Valeur limite d'exposition court terme (Valeur limite indicative d'exposition professionnelle)	300 ppm
	Valeur limite d'exposition court terme (Valeur limite indicative d'exposition professionnelle)	900 mg/m ³

Belgique

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2-Butanone	Valeur limite d'exposition professionnelle 8h	200 ppm
	Valeur limite d'exposition professionnelle 8h	600 mg/m ³
	Valeur limite d'exposition court terme	300 ppm
	Valeur limite d'exposition court terme	900 mg/m ³

Pays-Bas

2-Butanon	Valeur limite d'exposition professionnelle 8h (Valeur limite d'exposition professionnelle publique)	197 ppm
	Valeur limite d'exposition professionnelle 8h (Valeur limite d'exposition professionnelle publique)	590 mg/m ³
	Valeur limite d'exposition court terme (Valeur limite d'exposition professionnelle publique)	300 ppm
	Valeur limite d'exposition court terme (Valeur limite d'exposition professionnelle publique)	900 mg/m ³

France

Méthyléthylcétone	Valeur limite d'exposition professionnelle 8h (VRC: Valeur réglementaire contraignante)	200 ppm
	Valeur limite d'exposition professionnelle 8h (VRC: Valeur réglementaire contraignante)	600 mg/m ³
	Valeur limite d'exposition court terme (VRC: Valeur réglementaire contraignante)	300 ppm
	Valeur limite d'exposition court terme (VRC: Valeur réglementaire contraignante)	900 mg/m ³

Allemagne

Butanon	Valeur limite d'exposition professionnelle 8h (TRGS 900)	200 ppm
	Valeur limite d'exposition professionnelle 8h (TRGS 900)	600 mg/m ³

Autriche

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

UK

Butan-2-one (methyl ethyl ketone)	Valeur limite d'exposition professionnelle 8h (Workplace exposure limit (EH40/2005))	200 ppm
	Valeur limite d'exposition professionnelle 8h (Workplace exposure limit (EH40/2005))	600 mg/m ³
	Valeur limite d'exposition court terme (Workplace exposure limit (EH40/2005))	300 ppm
	Valeur limite d'exposition court terme (Workplace exposure limit (EH40/2005))	899 mg/m ³

USA (TLV-ACGIH)

Methyl ethyl ketone	Valeur limite d'exposition professionnelle 8h (TLV - Adopted Value)	200 ppm
	Valeur limite d'exposition court terme (TLV - Adopted Value)	300 ppm

b) Valeurs limites biologiques nationales

Les valeurs limites sont reprises ci-dessous lorsque disponibles et applicables.

Allemagne

2-Butanon (Methylethylketon) (2-Butanon)	Urin: 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 Méthodes de prélèvement

Nom de produit	Essai	Numéro
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

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8.1.3 Valeurs limites applicables lorsqu'on utilise la substance ou le mélange aux fins prévues

Les valeurs limites sont reprises ci-dessous lorsque disponibles et applicables.

8.1.4 Valeurs seuils

DNEL/DMEL - Travailleurs

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Seuil (DNEL/DMEL)	Type	Valeur	Remarque
DNEL	Effets systémiques à long terme – inhalation	600 mg/m ³	
	Effets systémiques à long terme – voie cutanée	1161 mg/kg de pc/jour	

DNEL/DMEL - Grand public

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Seuil (DNEL/DMEL)	Type	Valeur	Remarque
DNEL	Effets systémiques à long terme – inhalation	106 mg/m ³	
	Effets systémiques à long terme – voie cutanée	412 mg/kg de pc/jour	
	Effets systémiques à long terme – voie orale	31 mg/kg de pc/jour	

8.1.5 Control banding

Est repris ci-dessous lorsque disponible et applicable.

8.2. Contrôles de l'exposition

Les informations dans cette section sont une description générale. Les scénarios d'exposition figurent en annexe lorsqu'ils sont disponibles et applicables. Utiliser toujours les scénarios d'exposition appropriés correspondant à votre utilisation identifiée.

8.2.1 Contrôles techniques appropriés

Tenir à l'écart des flammes nues/de la chaleur. Ventilation insuffisante: prendre des mesures contre les charges électrostatiques. Ventilation insuffisante: utiliser des appareils/de l'éclairage anti-étincelles et antidéflagrants. Ventilation insuffisante: éloigner des flammes nues/étincelles. Mesurer régulièrement la concentration dans l'air. Travailler sous aspiration locale/ventilation.

8.2.2 Mesures de protection individuelle, telles que les équipements de protection individuelle

Observer l'hygiène usuelle. Ne pas manger, ni boire ni fumer pendant le travail.

a) Protection respiratoire:

Masque complet avec filtre de type A si conc. dans l'air > valeur limite d'exposition.

b) Protection des mains:

Gants de protection contre les produits chimiques (EN 374).

Matériaux appropriés	Délai de rupture mesuré	Épaisseur	Indice de protection	Remarque
caoutchouc nitrile	> 480 minutes	0.35 mm	Classe 6	

c) Protection des yeux:

Lunettes bien ajustables (EN 166).

d) Protection de la peau:

Vêtements de protection (EN 14605 ou EN 13034). Protection de la tête/du cou.

8.2.3 Contrôles d'exposition liés à la protection de l'environnement:

Voir rubriques 6.2, 6.3 et 13

RUBRIQUE 9: Propriétés physiques et chimiques

9.1. Informations sur les propriétés physiques et chimiques essentielles

Aspect physique	Liquide
Odeur	Odeur caractéristique
Seuil d'odeur	6 mg/m ³ - 251 mg/m ³ 2 ppm - 85 ppm
Couleur	Aucun renseignement disponible concernant la couleur
Transparence	Limpide
Taille des particules	Sans objet (liquide)
Limites d'inflammabilité	1.8 - 11.5 vol %
Inflammabilité	Liquide et vapeurs très inflammables.
Log Kow	0.3 ; Valeur expérimentale ; OCDE 117 ; 40 °C
Viscosité dynamique	0.405 mPa.s ; 25 °C 0.315 mPa.s ; 50 °C
Viscosité cinématique	Aucun renseignement disponible dans la littérature
Point de fusion	-87 °C ; 1013 hPa
Point d'ébullition	80 °C ; 1013 hPa
Densité de vapeur relative	2.50 ; Calculé
Pression de vapeur	104 hPa ; 20 °C 370 hPa ; 50 °C
Solubilité	L'eau ; complète
	Éthanol ; complète
	L'acétone ; complète
	L'éther ; complète
Densité relative	0.81 ; 20 °C
Densité absolue	805 kg/m ³ ; 20 °C
Température de décomposition	Aucun renseignement disponible dans la littérature
Température d'auto-ignition	404 °C ; 1010 hPa
Point d'éclair	-4 °C

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pH

Aucun renseignement disponible dans la littérature

9.2. Autres informations

Aucun renseignement disponible

RUBRIQUE 10: Stabilité et réactivité

10.1. Réactivité

Peut s'enflammer en contact avec une étincelle.

10.2. Stabilité chimique

Stable dans les conditions normales.

10.3. Possibilité de réactions dangereuses

Réagit violemment avec les oxydants (forts): risque d'incendie/explosion (accru). Réaction violente à explosive avec nombre de composés, p.ex.: avec (certains) composés halogénés, alcools et avec (certains) acides/(certaines) bases. Stockage prolongé: peroxydation entraînant risque d'incendie/explosion accru.

10.4. Conditions à éviter

Mesures de précaution

Tenir à l'écart des flammes nues/de la chaleur. Ventilation insuffisante: prendre des mesures contre les charges électrostatiques. Ventilation insuffisante: utiliser des appareils/de l'éclairage antiétincelles et antidéflagrants. Ventilation insuffisante: éloigner des flammes nues/étincelles.

10.5. Matières incompatibles

Aucun renseignement disponible.

10.6. Produits de décomposition dangereux

Formation de CO et de CO2 en cas de combustion.

RUBRIQUE 11: Informations toxicologiques

11.1. Informations sur les classes de danger telles que définies dans le règlement (CE) no 1272/2008

11.1.1 Résultats d'essais

Toxicité aiguë

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Voie d'exposition	Paramètre	Méthode	Valeur	Durée d'exposition	Espèce	Détermination de la valeur	Remarque
Oral	DL50	Équivalent à OCDE 423	2193 mg/kg de pc		Rat (masculin / féminin)	Valeur expérimentale	
Dermique	DL50	Équivalent à OCDE 402	> 8100 mg/kg de pc/jour	24 h	Lapin (mâle)	Valeur expérimentale	
Inhalation						Dispense de données	

Conclusion

Non classé pour la toxicité aiguë

Corrosion/irritation

MEGACLEAN

Voie d'exposition	Résultat	Méthode	Durée d'exposition	Point de temps	Espèce	Détermination de la valeur	Remarque
Oeil	Irritant	Équivalent à OCDE 405		24; 72 heures	Lapin	Valeur expérimentale	Administration unique sans rinçage
Peau	Non irritant	OCDE 404	4 h	4; 24; 48; 72 heures	Lapin	Read-across	

Conclusion

Provoque une sévère irritation des yeux.

Non classé comme irritant pour la peau

Non classé comme irritant pour les voies respiratoires

Sensibilisation respiratoire ou cutanée

MEGACLEAN

Voie d'exposition	Résultat	Méthode	Durée d'exposition	Point de temps	Espèce	Détermination de la valeur	Remarque
Peau	Non sensibilisant	OCDE 406			Cobaye (femelle)	Valeur expérimentale	

Conclusion

Non classé comme sensibilisant par voie cutanée

Non classé comme sensibilisant par inhalation

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Toxicité spécifique pour certains organes cibles

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Voie d'exposition	Paramètre	Méthode	Valeur	Organe	Effet	Durée d'exposition	Espèce	Détermination de la valeur
Oral								Dispense de données
Dermique								Dispense de données
Inhalation (vapeurs)	NOAEC	Équivalent à OCDE 413	5041 ppm		Aucun effet	13 semaines (6h / jour, 5 jours / semaine)	Rat (masculin / féminin)	Valeur expérimentale
Inhalation (vapeurs)			STOT SE cat.3		Somnolence, vertiges			Annexe VI

Conclusion

Peut provoquer somnolence ou vertiges.
Non classé pour la toxicité subchronique

Mutagénicité sur les cellules germinales (in vitro)

MEGACLEAN

Résultat	Méthode	Substrat d'essai	Effet	Détermination de la valeur	Remarque
Négatif avec activation métabolique, négatif sans activation métabolique	Équivalent à OCDE 473	Cellules de foie de rat	Aucun effet	Valeur expérimentale	
Négatif avec activation métabolique, négatif sans activation métabolique	Équivalent à OCDE 476	Souris (cellule de lymphome L5178Y)	Aucun effet	Valeur expérimentale	
Négatif avec activation métabolique, négatif sans activation métabolique	Équivalent à OCDE 471	Bacteria (S.typhimurium)	Aucun effet	Valeur expérimentale	

Mutagénicité sur les cellules germinales (in vivo)

MEGACLEAN

Résultat	Méthode	Durée d'exposition	Substrat d'essai	Organe	Détermination de la valeur
Négatif (Intrapéritonéal)	Équivalent à OCDE 474		Souris (masculin / féminin)		Valeur expérimentale

Conclusion

Non classé pour la mutagénicité ou la génotoxicité

Cancérogénicité

MEGACLEAN

Aucune donnée (expérimentale) disponible

Conclusion

Non classé pour la cancérogénicité

Toxicité pour la reproduction

MEGACLEAN

	Paramètre	Méthode	Valeur	Durée d'exposition	Espèce	Effet	Organe	Détermination de la valeur
Toxicité pour le développement (Inhalation)	NOAEC	Équivalent à OCDE 414	1002 ppm	10 jours (7h / jour)	Rat	Aucun effet	Fœtus	Valeur expérimentale
Toxicité maternelle (Inhalation)	NOAEC	Équivalent à OCDE 414	1002 ppm	10 jours (7h / jour)	Rat (femelle)	Aucun effet		Valeur expérimentale
Effets sur la fertilité (Par voie orale (eau potable))	NOAEL	Équivalent à OCDE 416	1644 mg/kg de pc/jour - 1771 mg/kg de pc/jour		Rat (masculin / féminin)	Aucun effet		Valeur expérimentale

Conclusion

Non classé pour la toxicité pour la reproduction ou la toxicité pour le développement

Toxicité autres effets

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Voie d'exposition	Paramètre	Méthode	Valeur	Organe	Effet	Durée d'exposition	Organisme	Détermination de la valeur
Peau				Peau	Dessèchement ou gerçures de la peau			Étude de littérature

Conclusion

L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

Effets chroniques d'une exposition de courte et de longue durée

MEGACLEAN

Pas d'effets connus.

11.2. Informations sur les autres dangers

Il n'y a aucune preuve de propriétés perturbant le système endocrinien

RUBRIQUE 12: Informations écologiques

12.1. Toxicité

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	Paramètre	Méthode	Valeur	Durée	Organisme	Conception de test	Eau douce/salée	Détermination de la valeur
Toxicité aiguë poissons	CL50	OCDE 203	2993 mg/l	96 h	Pimephales promelas	Système statique	Eau douce (non salée)	Valeur expérimentale
Toxicité aiguë crustacés	CE50	OCDE 202	308 mg/l	48 h	Daphnia magna	Système statique	Eau douce (non salée)	Valeur expérimentale
Toxicité algues et autres plantes aquatiques	ErC50	OCDE 201	1972 mg/l	72 h	Pseudokirchneriella subcapitata	Système statique	Eau douce (non salée)	Valeur expérimentale
Toxicité micro-organismes aquatiques	Toxicity threshold	Équivalent à DIN 38412/8	1150 mg/l	16 h	Pseudomonas putida	Système statique	Eau douce (non salée)	Valeur expérimentale

Conclusion

Non classé comme dangereux pour l'environnement selon les critères du Règlement (CE) n° 1272/2008

12.2. Persistance et dégradabilité

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Biodégradation eau

Méthode	Valeur	Durée	Détermination de la valeur
OCDE 301D	98 %; Consommation d'O ₂	28 jour(s)	Valeur expérimentale

Conclusion

Eau

Facilement biodégradable dans l'eau

12.3. Potentiel de bioaccumulation

MEGACLEAN

Log Kow

Méthode	Remarque	Valeur	Température	Détermination de la valeur
OCDE 117		0.3	40 °C	Valeur expérimentale

Conclusion

Faible potentiel de bioaccumulation (Log Kow < 4)

12.4. Mobilité dans le sol

MEGACLEAN

(log) Koc

Paramètre	Méthode	Valeur	Détermination de la valeur
log Koc	SRC PCKOCWIN v2.0	0.654 - 1.281	Valeur calculée

Conclusion

Très mobile dans le sol

12.5. Résultats des évaluations PBT et vPvB

La substance ne répond pas aux critères PBT ni aux critères vPvB selon l'annexe XIII du Règlement (CE) n° 1907/2006, et n'est donc ni PBT, ni vPvB.

12.6. Propriétés perturbant le système endocrinien

Il n'y a aucune preuve de propriétés perturbant le système endocrinien

12.7. Autres effets néfastes

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Gaz à effet de serre

Non repris dans la liste des gaz à effet de serre fluorés (Règlement (UE) n° 517/2014)

Potentiel d'appauvrissement de la couche d'ozone (PACO)

Non classé comme dangereux pour la couche d'ozone (Règlement (CE) n° 1005/2009)

Eaux souterraines

Pollue les eaux souterraines

RUBRIQUE 13: Considérations relatives à l'élimination

Les informations dans cette section sont une description générale. Les scénarios d'exposition figurent en annexe lorsqu'ils sont disponibles et applicables. Utiliser toujours les scénarios d'exposition appropriés correspondant à votre utilisation identifiée

13.1. Méthodes de traitement des déchets

13.1.1 Dispositions relatives aux déchets

Union européenne

Déchets dangereux selon la Directive 2008/98/CE, comme modifiée par Règlement (UE) n° 1357/2014 et Règlement (UE) n° 2017/997. Le code de déchet doit être attribué par l'utilisateur, de préférence en accord avec les autorités (environnementales) concernées.

13.1.2 Méthodes d'élimination

Dépôt avec les déchets ménagers n'est pas admis. Les déchets dangereux ne peuvent pas être mélangés avec d'autres déchets. Il est interdit de mélanger différents types de déchets dangereux si cela peut entraîner un risque de pollution ou créer des problèmes pour la gestion ultérieure des déchets. Les déchets dangereux doivent être gérés de manière responsable. Toutes les entités qui stockent, transportent ou manipulent des déchets dangereux prennent les mesures nécessaires pour éviter les risques de pollution ou de dommages à des personnes ou à des animaux. Éliminer les déchets conformément aux prescriptions locales et/ou nationales. Ne pas rejeter à l'égout ou dans l'environnement. Porter à un centre agréé de collecte des déchets.

13.1.3 Emballages

Union européenne

Code de déchet emballage (Directive 2008/98/CE).

15 01 10* (emballages contenant des résidus de substances dangereuses ou contaminés par de tels résidus).

RUBRIQUE 14: Informations relatives au transport

Route (ADR)

14.1. Numéro ONU

Numéro ONU	1193
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14.2. Désignation officielle de transport de l'ONU

Nom d'expédition	éthylméthylcétone (méthyléthylcétone)
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14.3. Classe(s) de danger pour le transport

Numéro d'identification du danger	33
Classe	3
Code de classification	F1

14.4. Groupe d'emballage

Groupe d'emballage	II
Étiquettes	3

14.5. Dangers pour l'environnement

Marque matière dangereuse pour l'environnement	non
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14.6. Précautions particulières à prendre par l'utilisateur

Dispositions spéciales	
Quantités limitées	Emballages combinés: jusqu'à 1 litre par emballage intérieur pour les matières liquides. Un colis ne doit pas peser plus de 30 kg. (masse brute)

Chemin de fer (RID)

14.1. Numéro ONU

Numéro ONU	1193
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14.2. Désignation officielle de transport de l'ONU

Nom d'expédition	éthylméthylcétone (méthyléthylcétone)
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14.3. Classe(s) de danger pour le transport

Numéro d'identification du danger	33
Classe	3
Code de classification	F1

14.4. Groupe d'emballage

Groupe d'emballage	II
Étiquettes	3

14.5. Dangers pour l'environnement

Marque matière dangereuse pour l'environnement	non
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14.6. Précautions particulières à prendre par l'utilisateur

Dispositions spéciales	
Quantités limitées	Emballages combinés: jusqu'à 1 litre par emballage intérieur pour les matières liquides. Un colis ne doit pas peser plus de 30 kg. (masse brute)

Voies de navigation intérieures (ADN)

14.1. Numéro ONU

Numéro ONU	1193
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14.2. Désignation officielle de transport de l'ONU

MEGACLEAN

Nom d'expédition	éthylméthylcétone (méthyléthylcétone)
14.3. Classe(s) de danger pour le transport	
Classe	3
Code de classification	F1
14.4. Groupe d'emballage	
Groupe d'emballage	II
Étiquettes	3
14.5. Dangers pour l'environnement	
Marque matière dangereuse pour l'environnement	non
14.6. Précautions particulières à prendre par l'utilisateur	
Dispositions spéciales	
Quantités limitées	Emballages combinés: jusqu'à 1 litre par emballage intérieur pour les matières liquides. Un colis ne doit pas peser plus de 30 kg. (masse brute)

Mer (IMDG/IMSBC)

14.1. Numéro ONU	
Numéro ONU	1193
14.2. Désignation officielle de transport de l'ONU	
Nom d'expédition	ethyl methyl ketone (methyl ethyl ketone)
14.3. Classe(s) de danger pour le transport	
Classe	3
14.4. Groupe d'emballage	
Groupe d'emballage	II
Étiquettes	3
14.5. Dangers pour l'environnement	
Polluant marin	-
Marque matière dangereuse pour l'environnement	non
14.6. Précautions particulières à prendre par l'utilisateur	
Dispositions spéciales	
Quantités limitées	Emballages combinés: jusqu'à 1 litre par emballage intérieur pour les matières liquides. Un colis ne doit pas peser plus de 30 kg. (masse brute)
14.7. Transport maritime en vrac conformément aux instruments de l'OMI	
Annexe II de Marpol 73/78	Sans objet, basé sur les informations disponibles

Air (ICAO-TI/IATA-DGR)

14.1. Numéro ONU	
Numéro ONU	1193
14.2. Désignation officielle de transport de l'ONU	
Nom d'expédition	ethyl methyl ketone
14.3. Classe(s) de danger pour le transport	
Classe	3
14.4. Groupe d'emballage	
Groupe d'emballage	II
Étiquettes	3
14.5. Dangers pour l'environnement	
Marque matière dangereuse pour l'environnement	non
14.6. Précautions particulières à prendre par l'utilisateur	
Dispositions spéciales	
Transport passagers et cargo	
Quantités limitées: quantité nette max. par emballage	1 L

RUBRIQUE 15: Informations relatives à la réglementation

15.1. Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

Législation européenne:

Teneur en COV Directive 2010/75/UE

Teneur en COV	Remarque
100 %	

Directive 2012/18/UE (Seveso III)

Seuils en conditions particulières

Substance ou catégorie	Conditions particulières	Seuil bas (en tonnes)	Seuil haut (en tonnes)	Groupe	Pour cette substance ou ce mélange, il faut appliquer la règle d'addition pour:
P5a LIQUIDES INFLAMMABLES	maintenus à une température supérieure à leur point d'ébullition	10	50	Aucun(e)	Inflammabilité

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P5b LIQUIDES INFLAMMABLES	Les conditions particulières de traitement, telles qu'une pression ou une température élevée, peuvent représenter des dangers d'accidents majeurs	50	200	Aucun(e)	Inflammabilité
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Seuils en conditions normales

Substance ou catégorie	Seuil bas (en tonnes)	Seuil haut (en tonnes)	Groupe	Pour cette substance ou ce mélange, il faut appliquer la règle d'addition pour:
P5c LIQUIDES INFLAMMABLES	5000	50000	Aucun(e)	Inflammabilité

REACH Annexe XVII - Restriction

Soumis aux restrictions de l'Annexe XVII du Règlement (CE) n° 1907/2006: restrictions applicables à la fabrication, à la mise sur le marché et à l'utilisation de certaines substances dangereuses et de certains mélanges et articles dangereux.

	Dénomination de la substance, du groupe de substances ou du mélange	Conditions de restriction
· MEGACLEAN	Substances ou mélanges liquides qui répondent aux critères pour une des classes ou catégories de danger ci-après, visées à l'annexe I du règlement (CE) no 1272/2008: a) les classes de danger 2.1 à 2.4, 2.6 et 2.7, 2.8 types A et B, 2.9, 2.10, 2.12, 2.13 catégories 1 et 2, 2.14 catégories 1 et 2, 2.15 types A à F; b) les classes de danger 3.1 à 3.6, 3.7 effets néfastes sur la fonction sexuelle et la fertilité ou sur le développement, 3.8 effets autres que les effets narcotiques, 3.9 et 3.10; c) la classe de danger 4.1; d) la classe de danger 5.1.	<ol style="list-style-type: none"> Ne peuvent être utilisés: <ul style="list-style-type: none"> — dans des articles décoratifs destinés à produire des effets de lumière ou de couleur obtenus par des phases différentes, par exemple dans des lampes d'ambiance et des candeliers, — dans des farces et attrapes, — dans des jeux destinés à un ou plusieurs participants ou dans tout article destiné à être utilisé comme tel, même sous des aspects décoratifs. Les articles non conformes aux exigences du paragraphe 1 ne peuvent être mis sur le marché. Ne peuvent être mis sur le marché s'ils contiennent un colorant, excepté pour des raisons fiscales, un parfum ou les deux et: <ul style="list-style-type: none"> — s'ils peuvent être utilisés comme combustible dans des lampes à huile décoratives destinées au grand public, — s'ils présentent un danger en cas d'aspiration et sont étiquetés H304. Les lampes à huile décoratives destinées au grand public ne peuvent être mises sur le marché que si elles sont conformes à la norme européenne sur les lampes à huiles décoratives (EN 14059) adoptée par le Comité européen de normalisation (CEN). Sans préjudice de l'application d'autres dispositions communautaires relatives à la classification, à l'emballage et à l'étiquetage des substances et mélanges dangereux, les fournisseurs veillent à ce que les produits qu'ils mettent sur le marché respectent les exigences suivantes: <ol style="list-style-type: none"> l'emballage des huiles lampantes étiquetées avec H304 et destinées au grand public porte la mention ci-après, inscrite de manière lisible et indélébile: "Tenir les lampes remplies de ce liquide hors de portée des enfants" et, à compter du 1^{er} décembre 2010, "L'ingestion d'huile, même en petite quantité ou par succion de la mèche, peut causer des lésions pulmonaires potentiellement fatales"; l'emballage des allume-feu liquides étiquetés avec H304 et destinés au grand public porte, à compter du 1^{er} décembre 2010, la mention ci-après, inscrite de manière lisible et indélébile: "Une seule gorgée d'allume-feu peut causer des lésions pulmonaires potentiellement fatales"; les huiles lampantes et les allume-feu liquides étiquetés avec H304 et destinés au grand public sont conditionnés dans des récipients noirs opaques d'une capacité qui ne peut excéder un litre, à compter du 1^{er} décembre 2010.
· MEGACLEAN	Substances classées comme gaz inflammables, catégorie 1 ou 2, liquides inflammables, catégorie 1, 2 ou 3, matières solides inflammables, catégorie 1 ou 2, substances et mélanges qui, au contact de l'eau, dégagent des gaz inflammables, catégorie 1, 2 ou 3, liquides pyrophoriques, catégorie 1, ou matières solides pyrophoriques, catégorie 1, qu'elles figurent ou non à l'annexe VI, partie 3, de ce règlement.	<ol style="list-style-type: none"> Ne peuvent être utilisées en tant que substances ou dans des mélanges contenus dans des générateurs d'aérosols mis sur le marché à l'intention du grand public à des fins de divertissement et de décoration comme: <ul style="list-style-type: none"> — les scintillants métallisés destinés principalement à la décoration, — la neige et le givre artificiels, — les coussins "péteurs", — les bombes à serpents, — les excréments factices, — les mirlitons, — les paillettes et les mousses décoratives, — les toiles d'araignée artificielles, — les boules puantes. Sans préjudice de l'application d'autres dispositions communautaires en matière de classification, d'emballage et d'étiquetage des substances, les fournisseurs veillent à ce que, avant la mise sur le marché, l'emballage des générateurs d'aérosols visés ci-dessus porte d'une manière visible, lisible et indélébile la mention suivante: "Usage réservé aux utilisateurs professionnels." Par dérogation, les paragraphes 1 et 2 ne sont pas applicables aux générateurs d'aérosols visés à l'article 8, paragraphe 1, point a), de la directive 75/324/CEE du Conseil. Les générateurs d'aérosols visés aux paragraphes 1 et 2 ne peuvent être mis sur le marché que s'ils satisfont aux exigences qui y sont énoncées.
· MEGACLEAN	Substances relevant d'un ou de plusieurs des points suivants: a) substances classées à l'annexe VI, partie 3, du règlement (CE) no 1272/2008 comme: <ul style="list-style-type: none"> — substances cancérigènes de catégorie 1A, 1B ou 2, ou substances mutagènes sur les cellules germinales de catégorie 1A, 1B ou 2, mais à l'exclusion de toute substance classée en raison d'effets uniquement consécutifs à une exposition par inhalation — substances toxiques pour la reproduction 	Les mélanges à des fins de tatouage sont soumis aux restrictions du règlement (UE) n° 2020/2081.

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de catégorie 1A, 1B ou 2, mais à l'exclusion de toute substance classée en raison d'effets uniquement consécutifs à une exposition par inhalation

- sensibilisants cutanés de catégorie 1, 1A ou 1B
- substances corrosives pour la peau de catégorie 1, 1A, 1B ou 1C ou substances irritantes pour la peau de catégorie 2
- substances causant des lésions oculaires graves de catégorie 1 ou substances irritantes pour les yeux de catégorie 2

b) substances figurant à l'annexe II du règlement (CE) no 1223/2009 du Parlement européen et du Conseil

c) substances figurant à l'annexe IV du règlement (CE) no 1223/2009 pour lesquelles une condition est spécifiée dans au moins une des colonnes g, h et i du tableau de ladite annexe

d) substances figurant à l'appendice 13 de la présente annexe. Les exigences accessoires prévues aux paragraphes 7 et 8 de la colonne 2 de la présente entrée s'appliquent à tous les mélanges destinés à être utilisés à des fins de tatouage, qu'ils contiennent ou non une substance relevant des points a) à d) de la présente colonne.

Législation nationale Belgique

Aucun renseignement disponible

Législation nationale Pays-Bas

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

Législation nationale France

Risque de pénétration percutanée	Méthyléthylcétone; Risque de pénétration percutanée
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Législation nationale Allemagne

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

Législation nationale Autriche

besondere Gefahr der Hautresorption	Butanon; H
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Législation nationale UK

Skin absorption	Butan-2-one (methyl ethyl ketone); Sk
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Autres données pertinentes

Aucun renseignement disponible

15.2. Évaluation de la sécurité chimique

RUBRIQUE 16: Autres informations

Texte intégral de toute phrase H et EUH visée à la rubrique 3:

H225 Liquide et vapeurs très inflammables.
H319 Provoque une sévère irritation des yeux.
H336 Peut provoquer somnolence ou vertiges.
EUH066 L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

(*)	CLASSIFICATION INTERNE PAR BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CE50	Concentration Efficace 50 %
CL50	Concentration Létale 50 %
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System en Europe)
DL50	Dose Létale 50 %
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ErC50	EC50 in terms of reduction of growth rate
ETA	Estimation de la Toxicité Aiguë
NOAEL	No Observed Adverse Effect Level

Motif de la révision: 4, 8, 9, 12

Date d'établissement: 2002-11-06

Date de la révision: 2022-02-04

Numéro de la révision: 0800

Numéro BIG: 38712

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NOEC	No Observed Effect Concentration
OCDE	Organisation de Coopération et de Développement Économiques
PBT	Persistant, Bioaccumulable & Toxique
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

Les informations figurant sur cette fiche de données de sécurité ont été rédigées sur la base des données et échantillons remis à BIG, au mieux de nos capacités et dans l'état actuel des connaissances. La fiche de données de sécurité se limite à donner des lignes directrices pour le traitement, l'utilisation, la consommation, le stockage, le transport et l'élimination en toute sécurité des substances/préparations/mélanges mentionnés au point 1. De nouvelles fiches de données de sécurité sont établies de temps à autre. Seules les versions les plus récentes doivent être utilisées. Sauf mention contraire sur la fiche de données de sécurité, les informations ne s'appliquent pas aux substances/préparations/mélanges dans une forme plus pure, mélangés à d'autres substances ou mis en œuvre dans des processus. La fiche de données de sécurité ne comporte aucune spécification quant à la qualité des substances/préparations/mélanges concernés. Le respect des indications figurant sur cette fiche de données de sécurité ne dispense pas l'utilisateur de l'obligation de prendre toutes les mesures dictées par le bon sens, les réglementations et les recommandations pertinentes, ou les mesures nécessaires et/ou utiles sur la base des conditions d'application concrètes. BIG ne garantit ni l'exactitude, ni l'exhaustivité des informations fournies et n'est pas responsable des modifications apportées par des tiers. Cette fiche de données de sécurité n'a été établie que pour être utilisée au sein de l'Union européenne, en Suisse, en Islande, en Norvège et au Liechtenstein. Toute utilisation à d'autres pays est à vos risques et périls. L'utilisation de la fiche de données de sécurité est soumise aux conditions de licence et de limitation de responsabilité telles qu'énoncées dans votre contrat de licence ou, à défaut, dans les conditions générales de BIG. Tous les droits de propriété intellectuelle sur cette fiche appartiennent à BIG. La distribution et la reproduction sont limitées. Consultez le contrat/les conditions mentionné(s) pour de plus amples informations.

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Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES01: Manufacture of substance - Industrial
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental release categories: ERC 1, ERC 4
Scope of the process	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
Additional information	No exposure assessment presented for the environment.

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

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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.

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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	
<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>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES02: Use as an intermediate - Industrial		
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental release categories: ERC 6A		
Scope of the process	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).		

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

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

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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.

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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	
<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>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES03: Distribution of substance - Industrial		
Use descriptor	Sector of use: SU 3, SU8, SU9 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 Environmental release categories: ERC 1, ERC 2, ERC 3, ERC 4, ERC 5, ERC 6A, ERC 7		
Scope of the process	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.		

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

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

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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.

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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	
<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>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES04: Formulation & (re)packaging of substances and mixtures - Industrial
Use descriptor	Sector of use: SU 3, SU 10 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 Environmental release categories: ERC 2
Scope of the process	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.

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

Section 2.1	Control of worker exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure.	
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.
Batch processes at elevated temperatures (closed systems)	No other specific measures identified.

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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.

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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.	

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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	
Title	ES05: Uses in coatings - Industrial		
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15 Environmental release categories: ERC 4		
Scope of the process	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.		

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

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use/exposure			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
Assumes use at not more than 20°C above ambient temperature (unless stated differently). 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 (closed systems) with sample collection	Ensure material transfers are under containment or extract ventilation.

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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.

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

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SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES06: Uses in coatings - Professional		
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 Environmental release categories: ERC 8A, ERC 8D		
Scope of the process	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.		

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

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES07: Uses in cleaning agents - Industrial		
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 Environmental release categories: ERC 4		
Scope of the process	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.		

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

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

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

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

Section 3.2 - Environment
No exposure assessment presented for the environment.

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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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Exposure scenario – worker

SECTION 1	
TITLE EXPOSURE SCENARIO	
Title	ES08: Uses in cleaning agents - Professional
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 10, PROC 11, PROC 13, PROC 8a, PROC 8b Environmental release categories: ERC 8A, ERC 8B
Scope of the process	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).

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

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

SECTION 1		TITLE EXPOSURE SCENARIO
Title	ES09: Lubricants – Industrial	
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18 Environmental release categories: ERC 4, ERC 7	
Scope of the process	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.	

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

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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.	

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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	
Title	ES10: Metal working fluids / rolling oils - Industrial		
Use descriptor	Sector of use: SU 3 Process categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17 Environmental release categories: ERC 4		
Scope of the process	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	
Additional information	No exposure assessment presented for the environment.		

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

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

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

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Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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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.
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Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

SECTION 1	TITLE EXPOSURE SCENARIO
Title	ES11: Use in agrochemicals - Professional
Use descriptor	Sector of use: SU 22 Process categories: PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13 Environmental release categories: ERC 8A, ERC 8D
Scope of the process	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
Additional information	No exposure assessment presented for the environment.

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

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

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

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

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

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

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

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

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has been used to estimate workplace 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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Exposure scenario – worker

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

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

Section 2.1		Control of worker exposure	
Product characteristic			
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.		
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).		
Frequency and duration of use			
Covers daily exposures up to 8 hours (unless stated differently).			
Other given operational conditions affecting workers exposure.			
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	
Section 3.1 - Health			
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.			

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Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
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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.
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Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure scenario – worker

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

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

Section 2.1	Control of worker exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 kPa at STP.
Concentration of substance in product.	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use	
Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure.	
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). Avoid carrying out activities involving exposure for more than 1 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
Section 3.1 - Health	

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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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Exposure scenario – consumer

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES16: Uses in coatings - consumer		
Use descriptor	Sector of use: SU 21 Product categories: PC1, PC4, PC8 (binding agents only), PC9a, PC9b, PC15, PC18, PC23, PC24, PC31, PC34 Environmental release categories: ERC 8A, ERC 8D		
Scope of the process	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.		

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

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

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

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	Covers skin contact area up to 35.73 cm ²
	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 34 m ³
	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 ³) under typical ventilation. 34 m ³
	Covers use in room size of 34 m ³
	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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	Covers use up to 1 time/day
	Covers skin contact area up to 428 cm ²
	For each use event, covers use amounts up to 2,000 g
	Covers use in a one car garage (34 m ³) under typical ventilation. 34 m ³
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	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 ³
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³

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	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 ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	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 ³
	For each use event, covers use amounts up to 85 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m ³
	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

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	Covers use up to 1 time/day
	Covers skin contact area up to 428.75 cm ²
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³
	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 ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 40 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.23 hours/event
Leather tanning,	Covers concentrations up to 50%

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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 ²
	For each use event, covers use amounts up to 56 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
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 ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to (g): 115 g
	Covers use in room size of 20m ³
	Covers exposure up to 1.00 hours/event

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

SECTION 3	EXPOSURE ESTIMATION
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	
<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>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – consumer

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES17: Uses in cleaning agents - consumer		
Use descriptor	Sector of use: SU 21 Product categories: PC9a, PC9b, PC24, PC35 Environmental release categories: ERC 8A, ERC 8D		
Scope of the process	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	
Additional information	No exposure assessment presented for the environment.		

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

Product categories		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Coatings and paints, thinners, paint removers	Covers concentrations up to 27.5%		
Solvent rich, high solid, water borne paint			
	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 ²
	For each use event, covers use amounts up to 744 g
	Covers use in room size of 20m ³
	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 ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 491 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 13,800 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
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 ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 27 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.17 hours/event

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

SECTION 3	EXPOSURE ESTIMATION
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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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Exposure scenario – consumer

SECTION 1		TITLE EXPOSURE SCENARIO	
Title	ES18: Lubricants – consumer		
Use descriptor	Sector of use: SU 21 Product categories: PC1, PC24, PC31 Environmental release categories: ERC 8A, ERC 8D, ERC 9A, ERC 9B		
Scope of the process	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.		

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

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

Product categories		OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
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 ²		

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	For each use event, covers use amounts up to 9 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 6,390 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 85.05 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 75 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 2,200 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ²
	For each use event, covers use amounts up to 34 g
	Covers use in room size of 20m ³
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 ²
	For each use event, covers use amounts up to 73 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 142 g
	Covers use in room size of 20m ³
	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 ²
	For each use event, covers use amounts up to 35 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.33 hours/event

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

SECTION 3	EXPOSURE ESTIMATION
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	

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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
Title	ES19: Use in agrochemicals - consumer
Use descriptor	Sector of use: SU 21 Product categories: PC12, PC27 Environmental release categories: ERC 8A, ERC 8D
Scope of the process	Covers the consumer use in agrochemicals in liquid and solid forms.

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

Section 2.1	Control of consumer exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
Concentration of substance in	Unless otherwise indicated.
	Covers concentrations up to (%): 4%
Amounts used	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	50
Covers skin contact area up to (cm ²):	857.5
Frequency and duration of use/exposure	
Unless otherwise indicated.	
Covers use up to (times/day of use):	1
Covers use up to (hours/event):	0.5
Other given operational conditions affecting user exposure	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ 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 ²
	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 ³
	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 ²
	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 ³
	Covers exposure up to 0.50 hours/event

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

SECTION 3	EXPOSURE ESTIMATION
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	
<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>	

Section 4.2 - Environment	
No exposure assessment presented for the environment.	

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Exposure scenario – consumer

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

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

Section 2.1	Control of consumer exposure
Product characteristic	
Physical form of the product	Liquid, vapour pressure > 10 Pa at STP
Concentration of substance in product.	Unless otherwise indicated.
	Covers concentrations up to (%): 100%
Amounts used	
Unless otherwise indicated.	
For each use event, covers use amounts up to (g):	37,500
Covers skin contact area up to (cm ²):	420
Frequency and duration of use/exposure	
Unless otherwise indicated.	
Covers use up to (times/day of use):	0.143
Covers use up to (hours/event):	2
Other given operational conditions affecting user exposure	
Unless otherwise indicated. Covers use at ambient temperatures. Covers use in room size of 20m ³ 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 ²
	For each use event, covers use amounts up to 37,500 g
	Covers outdoor use.
	Covers use in room size of 100 m ³
	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 ²
	For each use event, covers use amounts up to 3,750 g
	Covers outdoor use.
	Covers use in room size of 100 m ³
	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 ³
	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 ²
	For each use event, covers use amounts up to 750 g
	Covers use in a one car garage (34 m ³) under typical ventilation.
	Covers use in room size of 34 m ³
	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 ³
	For each use event, covers use amounts up to 100 g
	Covers use in room size of 20m ³
	Covers exposure up to 0.01 hours/event

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

SECTION 3	EXPOSURE ESTIMATION
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
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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.	