SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

NOVABLACK MAGIC AKTIVATOR

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : NOVABLACK MAGIC AKTIVATOR
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Activator
Hardener

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

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

Manufacturer of the product

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

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Org. Perox.	type E	H242: Heating may cause a fire.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Contains: dibenzoyl peroxide.

Signal word Warning

H-statements

H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves, protective clothing and eye protection/face protection.

P235	Keep cool.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
dibenzoyl peroxide 01-2119511472-50	94-36-0 202-327-6	25%<C<50%	Org. Perox. B; H241 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(6)(2)	Constituent	M: 10 (Acute, ECHA) M: 10 (Chronic, ECHA)
ethanediol 01-2119456816-28	107-21-1 203-473-3	5%<C<10%	Acute Tox. 4; H302	(1)(2)(10)	Constituent	
amorphous silica	67762-90-7	5%<C<10%	Acute Tox. 4; H332	(1)	Constituent	

(1) For H- and EUH-statements in full: see section 16
(2) Substance with a Community workplace exposure limit
(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:
Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:
If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:
Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:
No effects known.

After eye contact:
Irritation of the eye tissue.

After ingestion:
No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

5.1.2 Unsuitable extinguishing media:

Small fire: Foam.

Major fire: Foam.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. Heating may cause a fire. Explosive decomposition on exposure to temperature rise: oxidation resulting in increased fire or explosion risk.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Extinguish/cool from behind cover/unmanned monitors. Do not move the load if exposed to heat. Large fire seat: let burn itself out under surveillance. Re-ignition is possible after the extinguishment. After extinguishing: flood seat of fire with plenty of water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a cool area. Keep container in a well-ventilated place. Fireproof storeroom. Unauthorized persons are not admitted. Keep only in the original container. Keep out of direct sunlight. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, Do not store with other substances.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

Ethylene glycol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm

Ethylene glycol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	52 mg/m³
	Short time value (Indicative occupational exposure limit value)	40 ppm
	Short time value (Indicative occupational exposure limit value)	104 mg/m³

Belgium

Ethylèneglycol (en aérosol)	Time-weighted average exposure limit 8 h	20 ppm (M)
	Time-weighted average exposure limit 8 h	52 mg/m³ (M)
	Short time value	40 ppm (M)
	Short time value	104 mg/m³ (M)
Peroxyde de dibenzoyle	Time-weighted average exposure limit 8 h	5 mg/m³

La mention “M” indique que lors d’une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d’intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l’exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d’échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d’échantillonnage.

The Netherlands

Ethaan-1,2-diol (damp)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	52 mg/m³
	Short time value (Public occupational exposure limit value)	40 ppm
	Short time value (Public occupational exposure limit value)	104 mg/m³
Ethaan-1,2-diol (druppels)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	3.9 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	10 mg/m³

France

Ethylèneglycol (vapeur)	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	20 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	52 mg/m³
	Short time value (VRI: Valeur réglementaire indicative)	40 ppm
	Short time value (VRI: Valeur réglementaire indicative)	104 mg/m³
Peroxyde de dibenzoyle	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	5 mg/m³

Germany

Dibenzoylperoxid	Time-weighted average exposure limit 8 h (TRGS 900)	5 mg/m³
Ethandiol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	26 mg/m³

UK

Dibenzoyl peroxide	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	5 mg/m³
Ethane-1,2-diol particulate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m³
Ethane-1,2-diol vapour	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	20 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	52 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	40 ppm
	Short time value (Workplace exposure limit (EH40/2005))	104 mg/m³

USA (TLV-ACGIH)

Benzoyl peroxide	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	5 mg/m³
Ethylene glycol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	25 ppm (V)
	Short time value (TLV - Adopted Value)	50 ppm (V)
	Short time value (TLV - Adopted Value)	10 mg/m³ (I,H)

(V): Vapor fraction
(I,H): Inhalable fraction, Aerosol only

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
1,2-ethanediol	NIOSH	5500
Benzoyl Peroxide	NIOSH	5009
Ethylene Glycol	NIOSH	5523
Ethylene Glycol	OSHA	2024
Silica, Amorphous (Respirable)	NIOSH	7501

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

dibenzoyl peroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	39 mg/m³	
	Long-term systemic effects dermal	13.3 mg/kg bw/day	
	Long-term local effects dermal	34 µg/cm²	

ethanediol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	35 mg/m³	
	Long-term systemic effects dermal	106 mg/kg bw/day	

DNEL/DMEL - General population

dibenzoyl peroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	2 mg/kg bw/day	

ethanediol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	7 mg/m³	
	Long-term systemic effects dermal	53 mg/kg bw/day	

PNEC

dibenzoyl peroxide

Compartments	Value	Remark
Fresh water	0.02 µg/l	
Marine water	0.002 µg/l	
Fresh water (intermittent releases)	0.602 µg/l	
STP	0.35 mg/l	
Fresh water sediment	0.013 mg/kg sediment dw	
Marine water sediment	0.001 mg/kg sediment dw	
Soil	0.003 mg/kg soil dw	

ethanediol

Compartments	Value	Remark
Fresh water	10 mg/l	
Marine water	1 mg/l	
Fresh water (intermittent releases)	10 mg/l	
Marine water (intermittent releases)	10 mg/l	
STP	199.5 mg/l	
Fresh water sediment	37 mg/kg sediment dw	
Marine water sediment	3.7 mg/kg sediment dw	
Soil	1.53 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
butyl rubber	> 480 minutes	0.4 mm	Class 6	

c) Eye protection:

Safety glasses (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Light red
Particle size	Not applicable (liquid)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
	Heating may cause a fire.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	197 °C
Relative vapour density	Not applicable
Vapour pressure	1 hPa ; 20 °C
Solubility	Water ; miscible
Relative density	1.15 ; 20 °C
Absolute density	1150 kg/m³ ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	410 °C
Flash point	111 °C
pH	Not applicable (non-soluble in water)

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Promotes combustion. Heating increases the fire hazard.

10.2. Chemical stability

Unstable on exposure to heat.

10.3. Possibility of hazardous reactions

Reacts violently with many compounds e.g.: with (strong) reducers, with combustible materials, with (some) acids/bases and with (some) metals.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

Do not store with other substances.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LC0	OECD 401	> 2000 mg/kg bw		Mouse (male / female)	Experimental value	
Dermal						Data waiving	
Inhalation (dust)	LC0	Equivalent to OECD 403	24.3 mg/l air	4 h	Rat (male)	Experimental value	

ethanediol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	BASF-internal standards	7712 mg/kg bw		Rat (male / female)	Experimental value	Aqueous solution
Oral			category 4			Annex VI	
Dermal	LD50		> 3500 mg/kg bw		Mouse (male / female)	Experimental value	
Inhalation (aerosol)	LC50		> 2.5 mg/l	6 h	Rat (male / female)	Experimental value	

Classification of this substance is debatable as it does not correspond to the conclusion from the test

amorphous silica

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Inhalation			category 4			Literature study	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Classification is based on the relevant ingredients

dibenzoyl peroxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Moderately irritating	Equivalent to OECD 405	24 h	1; 24; 48; 72 hrs; 7 days	Rabbit	Experimental value	Single treatment with rinsing
Eye	Irritating; category 2						
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 72 hours	Rabbit	Experimental value	

ethanediol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	BASF-internal standards	24 h	8 days	Rabbit	Experimental value	
Skin	Not irritating	BASF-internal standards	20 h	8 days	Rabbit	Experimental value	

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Classification is based on the relevant ingredients

dibenzoyl peroxide

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Sensitizing	Equivalent to OECD 429	3 day(s)		Mouse (female)	Experimental value	

ethanediol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Guinea pig maximisation test			Guinea pig (female)	Experimental value	

Conclusion

May cause an allergic skin reaction.

Not classified as sensitizing for inhalation

Specific target organ toxicity

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOEL	OECD 422	500 mg/kg bw/day		No effect		Rat (male)	Experimental value
Oral (stomach tube)	NOEL	OECD 422	1000 mg/kg bw/day		No effect		Rat (female)	Experimental value
Dermal								Data waiving

ethanediol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOEL	Equivalent to OECD 408	150 mg/kg bw/day		No effect	16 week(s)	Rat (male)	Experimental value
Oral (diet)	LOEL	Equivalent to OECD 408	500 mg/kg bw/day	Kidney	Affection of the renal tissue	16 week(s)	Rat (male)	Experimental value
Dermal	NOAEL	OECD 410	2200 mg/kg bw/day - 4400 mg/kg bw/day		No effect	4 weeks (daily)	Dog (male)	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	

ethanediol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value	

Mutagenicity (in vivo)

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative		8 week(s)	Mouse (male / female)		Experimental value

ethanediol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (diet))	Chromosome aberration assay		Rat (male / female)		Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Dermal	NOEL	Carcinogenic toxicity study	40 mg/animal	53 weeks (2 times / week)	Mouse (female)	No carcinogenic effect		Weight of evidence
Oral	NOAEL	Carcinogenic toxicity study	2800 mg/kg bw/day	120 week(s)	Rat (male / female)	No carcinogenic effect		Weight of evidence
Oral	NOAEL	Carcinogenic toxicity study	2800 mg/kg bw/day	80 week(s)	Mouse (male / female)	No carcinogenic effect		Weight of evidence

ethanediol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (diet)	NOAEL	Carcinogenic toxicity study	1000 mg/kg bw/day	104 weeks (daily)	Rat (male / female)	No carcinogenic effect		Experimental value

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

dibenzoyl peroxide

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 422	500 mg/kg bw/day		Rat (male / female)	No effect		Experimental value
Effects on fertility	LOEL	OECD 422	1000 mg/kg bw/day		Rat (male / female)		Testes	Experimental value

ethanediol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (aerosol))	NOAEC	Developmental toxicity study	150 mg/m³ air	10 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (aerosol))	NOAEC	Developmental toxicity study	1000 mg/m³ air	10 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (diet))	NOAEL	3 generation study	> 1000 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Chronic effects from short and long-term exposure

NOVABLACK MAGIC AKTIVATOR

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

NOVABLACK MAGIC AKTIVATOR

No (test)data on the mixture available

Classification is based on the relevant ingredients

dibenzoyl peroxide

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	0.06 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	OECD 202	0.11 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	0.071 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	0.02 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	EC10	OECD 211	0.001 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC50	OECD 209	35 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

ethanediol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EPA 600/4-90/027	> 72860 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 100 mg/l		Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	IC50		10940 mg/l	96 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Cell numbers
Long-term toxicity fish	NOEC	EPA 600/4-89/001	15380 mg/l	7 day(s)	Pimephales promelas	Semi-static system	Fresh water	Experimental value; Weight changes
Long-term toxicity aquatic crustacea	NOEC	EPA 600/4-89/001	8590 mg/l	7 day(s)	Ceriodaphnia dubia	Semi-static system	Fresh water	Experimental value; Reproduction

Conclusion

Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

dibenzoyl peroxide

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D	71 %; GLP	28 day(s)	Experimental value

Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111	< 1 day(s); GLP	Primary degradation	Experimental value

ethanediol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301A	90 % - 100 %; GLP	10 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	15.424 h	1.5E6 /cm³	Calculated value

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
	5 day(s) - 14 day(s)		Literature study

Conclusion

Water

Does not contain any not readily biodegradable component(s)

12.3. Bioaccumulative potential

NOVABLACK MAGIC AKTIVATOR

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

dibenzoyl peroxide

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
					Data waiving

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		3.2	22 °C	Experimental value

ethanediol

Log Kow

Method	Remark	Value	Temperature	Value determination
		-1.36		Experimental value

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

dibenzoyl peroxide

(log) Koc

Parameter	Method	Value	Value determination
log Koc	OECD 121	3.8	Experimental value

ethanediol

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
	0.03 %		0 %	0 %	100 %	QSAR

Conclusion

Contains component(s) that adsorb(s) into the soil
Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Groundwater

Groundwater pollutant

ethanediol

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).
08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).
15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number	3108

14.2. UN proper shipping name

Proper shipping name	organic peroxide type E, solid (dibenzoyl peroxide)

14.3. Transport hazard class(es)

Hazard identification number	
Class	5.2
Classification code	P1

14.4. Packing group

Packing group	
Labels	5.2

14.5. Environmental hazards

Environmentally hazardous substance mark	yes

14.6. Special precautions for user

Special provisions	122
Special provisions	274

Limited quantities	Combination packagings: not more than 500 g per inner packaging for solids. The total gross mass of the package shall not exceed 30 kg. (gross mass)

Rail (RID)

14.1. UN number

UN number	3108

14.2. UN proper shipping name

Proper shipping name	organic peroxide type E, solid (dibenzoyl peroxide)

14.3. Transport hazard class(es)

Hazard identification number	539
Class	5.2
Classification code	P1

14.4. Packing group

Packing group	
Labels	5.2

14.5. Environmental hazards

Environmentally hazardous substance mark	yes

14.6. Special precautions for user

Special provisions	122
Special provisions	274
Limited quantities	Combination packagings: not more than 500 g per inner packaging for solids. The total gross mass of the package shall not exceed 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number

UN number	3108

14.2. UN proper shipping name

Proper shipping name	organic peroxide type E, solid (dibenzoyl peroxide)

14.3. Transport hazard class(es)

Class	5.2
Classification code	P1

14.4. Packing group

Packing group	
Labels	5.2

14.5. Environmental hazards

Environmentally hazardous substance mark	yes

14.6. Special precautions for user

Special provisions	122
Special provisions	274
Limited quantities	Combination packagings: not more than 500 g per inner packaging for solids. The total gross mass of the package shall not exceed 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1. UN number

UN number	3108

14.2. UN proper shipping name

Proper shipping name	organic peroxide type E, solid

14.3. Transport hazard class(es)

Class	5.2

14.4. Packing group

Packing group	
Labels	5.2

14.5. Environmental hazards

Marine pollutant	P
Environmentally hazardous substance mark	yes

14.6. Special precautions for user

Special provisions	122
Special provisions	274
Limited quantities	Combination packagings: not more than 500 g per inner packaging for solids. The total gross mass of the package shall not exceed 30 kg. (gross mass)

14.7. Maritime transport in bulk according to IMO instruments

Annex II of MARPOL 73/78	Not applicable, based on available data

Air (ICAO-TI/IATA-DGR)

14.1. UN number

UN number	3108

14.2. UN proper shipping name

Proper shipping name	organic peroxide type E, solid (dibenzoyl peroxide)

14.3. Transport hazard class(es)

Class	5.2

14.4. Packing group

Packing group	
Labels	5.2

14.5. Environmental hazards

Environmentally hazardous substance mark	yes

14.6. Special precautions for user

Special provisions	A20
Special provisions	A802

Passenger and cargo transport

Limited quantities: maximum net quantity per packaging	Forbidden

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 g/l	
0 %	

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

ethanediol

Product name	Skin resorption
Ethylene glycol	Skin

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· ethanediol	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage”; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: “Just a sip of grill lighter may lead to life threatening lung damage”; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
· dibenzoyl peroxide	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye	1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances: (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

		irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.	(i) 0,1 % by weight, if the substance is used solely as a pH regulator; (ii) 0,01 % by weight, in all other cases; (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight: (i) “Rinse-off products”; (ii) “Not to be used in products applied on mucous membranes”; (iii) “Not to be used in eye products”; (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix. 2. For the purposes of this entry use of a mixture “for tattooing purposes” means injection or introduction of the mixture into a person’s skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as L 423/12 EN Official Journal of the European Union 15.12.2020 permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body. 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance. 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8); (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6). 5.If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification. 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: (a) the statement “Mixture for use in tattoos or permanent make-up”; (b) a reference number to uniquely identify the batch; (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. “Ingredient” means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation; (d) the additional statement “pH regulator” for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." If the mixture contains nickel below the concentration limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement “Mixture for use in tattoos or permanent make-up” shall not be used for tattooing purposes. 9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at

		temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8). 10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

National legislation Belgium

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No data available

ethanediol

Résorption peau	Ethylèneglycol (en aérosol); D; La mention “D” signifie que la résorption de l’agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l’exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l’agent dans l’air.

National legislation The Netherlands

NOVABLACK MAGIC AKTIVATOR

Waterbezwaarlijkheid	B (1); Algemene Beoordelingsmethodiek (ABM)

ethanediol

Huidopname (wettelijk)	Ethaan-1,2-diol (damp); H

National legislation France

NOVABLACK MAGIC AKTIVATOR

No data available

ethanediol

Risque de pénétration percutanée	Ethylèneglycol (vapeur); Risquedepénétrationpercutanée

National legislation Germany

NOVABLACK MAGIC AKTIVATOR

WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017

dibenzoyl peroxide

TA-Luft	5.2.5/I

ethanediol

TA-Luft	5.2.5/I
TRGS900 - Risiko der Fruchtschädigung	Ethandiol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	Ethandiol; H; Hautresorptiv

National legislation United Kingdom

NOVABLACK MAGIC AKTIVATOR

No data available

ethanediol

Skin absorption	Ethane-1,2-diol particulate; Sk
	Ethane-1,2-diol vapour; Sk

Other relevant data

NOVABLACK MAGIC AKTIVATOR

No data available

dibenzoyl peroxide

IARC - classification	3; Benzoyl peroxide
TLV - Carcinogen	Benzoyl peroxide; A4

ethanediol

TLV - Carcinogen	Ethylene glycol; A4

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H241 Heating may cause a fire or explosion.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

(*) INTERNAL CLASSIFICATION BY BIG
ADI Acceptable daily intake

AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.