



Safety Data Sheet dated 12/5/2025, version 2

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

### 1.1. Product identifier

Trade name: METALGONE

The transition time according to REACH Regulation, Article 23 is still not expired.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:

Uses advised against:

### 1.3. Details of the supplier of the safety data sheet

Company:  
Etablissements Guilmin SA  
Rue de la Plaine, 5  
6900 Marche-en-Famenne  
Belgium  
Tel : +32 (0) 84.21.16.45  
laboratoire@guilmin.be

### 1.4. Emergency telephone number :

Tel : +32 (0) 84.21.16.45  
Poison centre : +32 (0) 70 245 245

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Flam. Liq. 3, Flammable liquid and vapour.



Warning, STOT SE 3, May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

DECL10: This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing mist and vapours.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES

1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

## 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

No other hazards
























## SECTION 3: Composition/information on ingredients







### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 25\% - < 30\%$	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	Index number: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5	 3.6/2 Carc. 2 H351
$\geq 10\% - < 15\%$	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS: 64742-48-9 EC: 919-857-5	 2.6/3 Flam. Liq. 3 H226  3.10/1 Asp. Tox. 1 H304  3.8/3 STOT SE 3 H336 EUH066
$\geq 7\% - < 10\%$	HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES	CAS: 64742-48-9 EC: 919-857-5	 2.6/3 Flam. Liq. 3 H226  3.10/1 Asp. Tox. 1 H304  3.8/3 STOT SE 3 H336 EUH066
$\geq 7\% - < 10\%$	trizinc bis(orthophosphate)	Index number: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3	 4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
$\geq 5\% - < 7\%$	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS: 64742-48-9 EC: 918-481-9	 3.10/1 Asp. Tox. 1 H304 EUH066
$\geq 0,1\% - < 0,25\%$	OXYDE DE ZINC	Index number: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 REACH No.: 01-2119463881-32-0049	 4.1/C1 Aquatic Chronic 1 H410
$\geq 0,1\% - < 0,25\%$	2-ethylhexanoic acid	Index number: 607-230-00-6 CAS: 149-57-5 EC: 205-743-6	 3.7/2 Repr. 2 H361d
$\geq 0,1\% - < 0,25\%$	1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE	CAS: 82919-37-7	 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
$\geq 0,0015\% - < 0,1\%$	2-methylpentane-2,4-diol	Index number: 603-053-00-3 CAS: 107-41-5 EC: 203-489-0	 3.3/2 Eye Irrit. 2 H319  3.2/2 Skin Irrit. 2 H315
$\geq 0,0015\% - < 0,1\%$	phthalic anhydride	Index number: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5	 3.8/3 STOT SE 3 H335  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.1/1 Resp. Sens. 1 H334  3.4.2/1 Skin Sens. 1 H317  3.1/4 Oral Acute Tox. 4 H302

>=0,0015% - <0,1%	DIPROPYLÈNE GLYCOL ÉTHÉR MÉTHYLIQUE	CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-2119450011-60-0000	Substance with a Union workplace exposure limit.
>=0,0015% - <0,1%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9	 2.6/2 Flam. Liq. 2 H225  3.7/2 Repr. 2 H361d  3.10/1 Asp. Tox. 1 H304  3.9/2 STOT RE 2 H373  3.2/2 Skin Irrit. 2 H315  3.8/3 STOT SE 3 H336

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

#### In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

#### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

At a least a year in the original packaging, unopened and stored in a cool and dry place protected from frost.  
Always keep in a well ventilated place.  
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Cool and adequately ventilated.

### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - CAS: 13463-67-7  
- OEL Type: ACGIH - TWA(8h): 10 mg/m<sup>3</sup> - Notes: A4 - LRT irr  
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9  
- OEL Type: 11 - TWA: 1200 mg/m<sup>3</sup>, 197 ppm  
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9  
- OEL Type: 11 - TWA: 1200 mg/m<sup>3</sup>, 184 ppm  
OXYDE DE ZINC - CAS: 1314-13-2  
- OEL Type: ACGIH - TWA(8h): 2 mg/m<sup>3</sup> - STEL: 10 mg/m<sup>3</sup> - Notes: (R) - Metal fume fever  
2-ethylhexanoic acid - CAS: 149-57-5  
- OEL Type: ACGIH - TWA(8h): 5 mg/m<sup>3</sup> - Notes: (IFV) - Teratogenic eff  
2-methylpentane-2,4-diol - CAS: 107-41-5  
- OEL Type: ACGIH - TWA(8h): 25 ppm - STEL: 50 ppm - Notes: (V) - Eye and URT irr  
- OEL Type: ACGIH - STEL: 10 mg/m<sup>3</sup> - Notes: (I, H) - Eye and URT irr  
phthalic anhydride - CAS: 85-44-9  
- OEL Type: ACGIH - TWA(8h): 0.002 mg/m<sup>3</sup> - STEL: 0.005 mg/m<sup>3</sup> - Notes: (IFV), Skin, DSEN, RSEN, A4 - Resp sens, asthma  
DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8  
- OEL Type: EU - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Skin  
- OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair  
toluene - CAS: 108-88-3  
- OEL Type: EU - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: Skin  
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss

### DNEL Exposure Limit Values

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9  
Worker Professional: 208 04 - Consumer: 125 04 - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 871 03 - Consumer: 185 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 125 04 - Exposure: Human Oral - Frequency: Long Term, systemic effects  
HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES - CAS: 64742-48-9  
Worker Professional: 300 04 - Consumer: 300 04 - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 1500 03 - Consumer: 900 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 300 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
OXYDE DE ZINC - CAS: 1314-13-2  
Worker Professional: 1 03 - Exposure: Human Inhalation - Notes: Zinc soluble  
Worker Professional: 5 03 - Exposure: Human Inhalation - Notes: Zinc insoluble  
DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8  
Worker Professional: 283 04 - Consumer: 121 04 - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 308 03 - Consumer: 37.2 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 36 04 - Exposure: Human Oral - Frequency: Long Term, systemic effects

## PNEC Exposure Limit Values

DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: 11 - Value: 2.74 mg/kg

Target: Freshwater sediments - Value: 70.2 mg/kg

Target: Marine water sediments - Value: 7.02 mg/kg

## 8.2. Exposure controls

### Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

### Protection for skin:

No special precaution must be adopted for normal use.

### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

### Respiratory protection:

Use adequate protective respiratory equipment.

### Thermal Hazards:

None

### Environmental exposure controls:

None

### Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	White	--	--
Odour:	characteristic	--	--
Melting point/freezing point:	Indisponible	--	--
Boiling point or initial boiling point and boiling range:	> 35 °C	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	Indisponible	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm2/sec (40 °C)	--	--
Solubility in water:	insoluble	--	--
Solubility in oil:	soluble	--	--
Partition coefficient n-octanol/water (log value):	Indisponible	--	--
Vapour pressure:	Indisponible	--	--
Density and/or relative density:	around 1.41	--	--
Relative vapour density:	Indisponible	--	--

### Particle characteristics:

Particle size:	N.A.	--	--
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### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	with white spirit	--	--
Viscosity:	3.7 (ICI)	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

## 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

## 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

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

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

#### a) acute toxicity:

Test: RD54 - Route: Oral - Species: Rat > 5000 mg/kg

Test: RD54 - Route: CUT - Species: Rabbit > 5000 mg/kg - Notes: L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

Test: RD55 - Route: Inhalation - Species: Rat > 5000 mg/m3 - Duration: 4h - Notes: Entraîne une réaction narcotique sur le système nerveux central.

#### b) skin corrosion/irritation:

Test: RD56 - Route: CUT

#### c) serious eye damage/irritation:

Test: RD117

#### d) respiratory or skin sensitisation:

Test: RD57

#### e) germ cell mutagenicity:

Test: RD70

#### f) carcinogenicity:

Test: RD71

#### h) STOT-single exposure:

Test: RD108

#### j) aspiration hazard:

Test: RD109

HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES - CAS: 64742-48-9

#### a) acute toxicity:

Test: RD54 - Route: Oral - Species: Rat > 5000 mg/kg

Test: RD54 - Route: CUT - Species: Rabbit > 2000 mg/kg - Notes: L'exposition répétée peut provoquer dessèchement ou gerçures de la peau.

Route: Inhalation - Notes: Entraîne une réaction narcotique sur le système nerveux central.

#### h) STOT-single exposure:

Test: RD108

#### j) aspiration hazard:

Test: RD109

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

#### a) acute toxicity:

Test: RD55 - Route: Inhalation - Species: Rat > 5000 mg/m3 - Duration: 4h

Test: RD54 - Route: Oral - Species: Rat > 5000 mg/kg

Test: RD54 - Route: CUT - Species: Rabbit > 5000 mg/kg

#### b) skin corrosion/irritation:

Test: RD56 - Route: CUT

#### c) serious eye damage/irritation:

Test: RD129

#### d) respiratory or skin sensitisation:

Test: RD57

#### e) germ cell mutagenicity:

Test: RD70

#### f) carcinogenicity:

Test: RD71

#### g) reproductive toxicity:

Test: RD72

#### j) aspiration hazard:

Test: RD109

OXYDE DE ZINC - CAS: 1314-13-2

#### a) acute toxicity:

Test: RD55 - Route: Inhalation - Species: Rat > 5.7 mg/l - Duration: 4h

Test: RD54 - Route: Oral - Species: Rat > 5000 mg/kg

DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8

#### a) acute toxicity:

Test: RD54 - Route: Oral - Species: Rat > 5000 mg/kg

Test: RD54 - Route: CUT - Species: Rabbit 9510 mg/kg

Test: RD55 - Route: Inhalation - Species: Rat 3.35 mg/l - Duration: 7H

- b) skin corrosion/irritation:  
Test: RD94 - Route: CUT
- c) serious eye damage/irritation:  
Test: RD169
- d) respiratory or skin sensitisation:  
Test: RD57
- e) germ cell mutagenicity:  
Test: RD70
- h) STOT-single exposure:  
Test: RD73
- i) STOT-repeated exposure:  
Test: RD161
- j) aspiration hazard:  
Test: RD77

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

## 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

a) Aquatic acute toxicity:

Endpoint: 19125.LE0 DM 1000 mg/l - Duration h: 48

Endpoint: 19125.LL50 OM > 1000 mg/l - Duration h: 96

Endpoint: 19125.LE50 AL > 1000 mg/l - Duration h: 72

HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES - CAS: 64742-48-9

a) Aquatic acute toxicity:

Endpoint: IC54 Daphnia > 1000 mg/l - Duration h: 48

Endpoint: IC53 Fish > 1000 mg/l - Duration h: 96

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

a) Aquatic acute toxicity:

Endpoint: 19125.LE0 DM 1000 mg/l - Duration h: 48

Endpoint: IC66 OM 1000 mg/l - Duration h: 96

Endpoint: 19125.LE0 AL 1000 mg/l - Duration h: 72

OXYDE DE ZINC - CAS: 1314-13-2

a) Aquatic acute toxicity:

Endpoint: IC63 Algae 0.17 mg/l

DIPROPYLENE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: IC53 PR > 1000 mg/l - Duration h: 96

Endpoint: IC53 DM 1919 mg/l - Duration h: 48

Endpoint: IC53 C4 > 1000 mg/l - Duration h: 96

Endpoint: IC53 C5 2070 mg/l - Duration h: 48

Endpoint: IC59 AL > 969 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: IC62 DM > 0.5 mg/l

Endpoint: IC64 DM > 0.5 mg/l

c) Bacteria toxicity:

Endpoint: IC58 PPU 4168 mg/l - Duration h: 18

### 12.2. Persistence and degradability

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

Biodegradability: 7

HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES - CAS: 64742-48-9

Biodegradability: 7

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

Biodegradability: 7

- OXYDE DE ZINC - CAS: 1314-13-2  
Biodegradability: 10  
DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8  
Biodegradability: 7
- 12.3. Bioaccumulative potential  
OXYDE DE ZINC - CAS: 1314-13-2  
Not bioaccumulative  
DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8  
6
- 12.4. Mobility in soil  
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9  
25  
26  
HYDROCARBURES C9-C11, N-ALCANES, < 2% AROMATIQUES - CAS: 64742-48-9  
13  
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9  
25  
26  
DIPROPYLÈNE GLYCOL ÉTHER MÉTHYLIQUE - CAS: 34590-94-8  
18
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$
- 12.7. Other adverse effects  
None

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## SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

- 14.1. UN number or ID number
- 14.2. UN proper shipping name  
ADR-Shipping Name: \*ENTER PROPER SHIPPING NAME\*  
IATA-Shipping Name: \*ENTER PROPER SHIPPING NAME\*  
IMDG-Shipping Name: \*ENTER PROPER SHIPPING NAME\*
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards
- 14.6. Special precautions for user
- 14.7. Maritime transport in bulk according to IMO instruments  
N.A.

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## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)



Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 28

Restriction 29

Restriction 48

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c, E2

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H351 Suspected of causing cancer if inhaled.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H361d Suspected of damaging the unborn child.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H302 Harmful if swallowed.

H225 Highly flammable liquid and vapour.

H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Carc. 2	3.6/2	Carcinogenicity, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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Flam. Liq. 3, H226	On basis of test data
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.