SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Cure It Pigmented Topcoat

UFI:

7793-40R9-N00C-W57W

https://my.chemius.net/p/sWOe5Y/en/pd/en

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

Relevant identified uses

Topcoat for roofing. Contact the manufacturer for any other applications.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

Cure It Composites Ltd
Giants Hall Farm
WN6 8RY Wigan, United Kingdom
+44 (0)1942 518150
enquiries@cureit.com

1.4 Emergency Telephone Number

Emergency

112

Supplier

+44 (0) 3301 222666 Mon-Friday 8.30am – 4.30pm

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Repr. 2; H361d Suspected of damaging the unborn child.
STOT RE 1; H372 Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: DANGER

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
EUH208 Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take action to prevent static discharges.
P260 Do not breathe vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Contains:
Styrene

2.3 Other hazards

PBT/vPvB
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties
No data.

Additional information
No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Aluminum hydroxide	21645-51-2 244-492-7 - 01-2119529246-39	> 20	/	/	/

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	15 - < 20	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Repr. 2; H361d STOT RE 1; H372 Aquatic Chronic 3; H412	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4 807-935-0 - 01-2119486772-26	1-5	Acute Tox. 4; H302	/	/
titanium dioxide	13463-67-7 236-675-5 - 01-2119489379-17	0.1 - < 3	/	/	/
synthetic amorphuos silica, fumed, crystalline free	112945-52-5 231-545-4 - 01-2119379499-16	0.1 - < 3	/	/	/
dipropylene glycol methyl ether	34590-94-8 252-104-2 - 01-2119450011-60	0.1-<1	/	/	/
carbon black	1333-86-4 215-609-9 - 01-2119384822-32	0.1-<1	/	/	/
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 607-230-00-6 01-2119524678-29	0,01-<0,1	Skin Sens. 1A; H317 Eye Irrit. 2; H319 Repr. 1B; H360FD Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Use personal protective equipment. See section 8 for more information.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Seek medical help immediately. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

Wash affected skin areas thoroughly with plenty of water and soap. Take off all contaminated clothing. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Itching, redness, pain. May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause abdominal discomfort. May cause nausea/vomiting and diarrhea. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Alcohol-resistant foam.
Foam. In enclosed areas: carbon dioxide.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO_2).

5.3 Advice for firefighters

Protective actions

Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Take precautionary measures against static discharges.

Emergency procedures

Prevent access to unprotected personnel. No action shall be taken involving any personal risk or without suitable training. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Remove all sources of ignition. Prevent release into the sewer, water, basements or confined areas. Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13). Ventilate the premises. Use spark-proof tools. Use only explosion-proof instruments and equipment.

Other information

See Section 12: ECOLOGICAL INFORMATION.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges. Use spark-proof tools. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Do not eat, drink or smoke while working. Do not breathe vapours/mist. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. In case of insufficient ventilation, wear suitable respiratory protection equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition - no smoking. Keep in a cool, dry and well ventilated place. Keep away from strong oxidising agents. Keep away from peroxides. Keep away from reducing agents.

Packaging materials

Metallic GRP containers. Unsuitable material: copper, copper alloys, bronze, zinc.

Requirements for storage rooms and vessels
Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature
No information.

Storage class
No information.

Further information on storage conditions
No information.

7.3 Specific end use(s)
Recommendations
No information.

Industrial sector specific solutions
No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational Exposure limit values

Name	mg/m³	ml/m³	Short-term value mg/m³	Short-term value ml/m³	Remark	Biological Tolerance Values
Silica, amorphous inhalable dust	6	/	/	/	/	/
Silica, amorphous respirable dust	2.4	/	/	/	/	/
Styrene (100-42-5)	430	100	1080	250	/	/
(2-methoxymethylethoxy) propanol (34590-94-8)	308	50	/	/	Sk	/
Carbon black (1333-86-4)	3.5	/	7	/	/	/
Titanium dioxide respirable (13463-67-7)	4	/	/	/	/	/
Titanium dioxide total inhalable (13463-67-7)	10	/	/	/	/	/

Information on monitoring procedures
BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product
No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
Aluminum hydroxide	Worker	inhalation	long term systemic effects	/	10.76 mg/m³

Name	Type	Exposure route	exp. frequency	Remark	Value
Aluminum hydroxide	Worker	inhalation	long term local effects	/	10.76 mg/m³
Aluminum hydroxide	Consumer	oral	long term systemic effects	/	4.74 mg/kg bw/day
Styrene	Worker	inhalation	long term systemic effects	/	85 mg/m³
Styrene	Worker	inhalation	short term systemic effects	/	289 mg/m³
Styrene	Worker	inhalation	short term local effects	/	306 mg/m³
Styrene	Worker	dermal	long term systemic effects	/	406 mg/kg bw/day
Styrene	Consumer	inhalation	long term systemic effects	/	10.2 mg/m³
Styrene	Consumer	inhalation	short term systemic effects	/	174.25 mg/m³
Styrene	Consumer	inhalation	short term local effects	/	182.75 mg/m³
Styrene	Consumer	dermal	long term systemic effects	/	343 mg/kg bw/day
Styrene	Consumer	oral	long term systemic effects	/	2.1 mg/kg bw/day
Reaction products of phosphoryl trichloride and 2-methyloxirane	Worker	inhalation	long term systemic effects	/	8.2 mg/m³
Reaction products of phosphoryl trichloride and 2-methyloxirane	Worker	inhalation	short term systemic effects	/	22.6 mg/m³
Reaction products of phosphoryl trichloride and 2-methyloxirane	Worker	dermal	long term systemic effects	/	2.91 mg/kg bw/day
Reaction products of phosphoryl trichloride and 2-methyloxirane	Consumer	inhalation	long term systemic effects	/	1.45 mg/m³
Reaction products of phosphoryl trichloride and 2-methyloxirane	Consumer	inhalation	short term systemic effects	/	5.6 mg/m³
Reaction products of phosphoryl trichloride and 2-methyloxirane	Consumer	dermal	long term systemic effects	/	1.04 mg/kg bw/day
Reaction products of phosphoryl trichloride and 2-methyloxirane	Consumer	oral	long term systemic effects	/	0.52 mg/kg bw/day
Reaction products of phosphoryl trichloride and 2-methyloxirane	Consumer	oral	short term systemic effects	/	2 mg/kg bw/day
titanium dioxide	Worker	inhalation	long term local effects	/	1.25 mg/m³
titanium dioxide	Consumer	inhalation	long term local effects	/	210 µg/m³
dipropylene glycol methyl ether	Worker	inhalation	long term systemic effects	/	308 mg/m³
dipropylene glycol methyl ether	Worker	dermal	long term systemic effects	/	283 mg/kg bw/day
dipropylene glycol methyl ether	Consumer	inhalation	long term systemic effects	/	37.2 mg/m³
dipropylene glycol methyl ether	Consumer	dermal	long term systemic effects	/	121 mg/kg bw/day

Name	Type	Exposure route	exp. frequency	Remark	Value
dipropylene glycol methyl ether	Consumer	oral	long term systemic effects	/	36 mg/kg bw/day
cobalt bis(2-ethylhexanoate)	Worker	inhalation	long term local effects	/	235.1 µg/m³
cobalt bis(2-ethylhexanoate)	Consumer	inhalation	long term local effects	/	37 µg/m³
cobalt bis(2-ethylhexanoate)	Consumer	oral	long term systemic effects	/	175 µg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
Styrene	fresh water	/	0.028 mg/L
Styrene	water, intermittent release	/	0.04 mg/L
Styrene	marine water	/	0.014 mg/L
Styrene	water treatment plant	/	5 mg/L
Styrene	fresh water sediment	dry weight	0.614 mg/kg
Styrene	marine water sediment	dry weight	0.307 mg/kg
Styrene	soil	dry weight	0.2 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane	fresh water	/	0.32 mg/L
Reaction products of phosphoryl trichloride and 2-methyloxirane	water, intermittent release	/	0.51 mg/L
Reaction products of phosphoryl trichloride and 2-methyloxirane	marine water	/	0.032 mg/L
Reaction products of phosphoryl trichloride and 2-methyloxirane	water treatment plant	/	19.1 mg/L
Reaction products of phosphoryl trichloride and 2-methyloxirane	fresh water sediment	dry weight	11.5 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane	marine water sediment	dry weight	1.15 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane	soil	dry weight	0.34 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane	secondary poisoning	food	11.6 mg/kg
dipropylene glycol methyl ether	fresh water	/	19 mg/L
dipropylene glycol methyl ether	water, intermittent release	/	190 mg/L
dipropylene glycol methyl ether	marine water	/	1.9 mg/L
dipropylene glycol methyl ether	water treatment plant	/	4168 mg/L
dipropylene glycol methyl ether	fresh water sediment	dry weight	70.2 mg/kg
dipropylene glycol methyl ether	marine water sediment	dry weight	7.02 mg/kg
dipropylene glycol methyl ether	soil	dry weight	2.74 mg/kg
cobalt bis(2-ethylhexanoate)	fresh water	/	1.06 µg/L

Name	Exposure route	Remark	Value
cobalt bis(2-ethylhexanoate)	marine water	/	2.36 µg/L
cobalt bis(2-ethylhexanoate)	water treatment plant	/	0.37 mg/L
cobalt bis(2-ethylhexanoate)	fresh water sediment	dry weight	53.8 mg/kg
cobalt bis(2-ethylhexanoate)	marine water sediment	dry weight	69.8 mg/kg
cobalt bis(2-ethylhexanoate)	soil	dry weight	10.9 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Do not breathe vapours/aerosols. Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Training for staff on good practice.

Technical measures to prevent exposure

Apply technical measures necessary in order not to exceed the occupational exposure limit. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022). Do not use contact lenses.

Hand protection

Protective gloves (BS EN ISO 374). Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Neoprene	/	/	BS EN ISO 374
Nitrile	/	/	BS EN ISO 374
Viton (fluorinated rubber)	/	/	BS EN ISO 374
PVA	/	/	BS EN ISO 374

Skin protection

Choose body protection according to the activity and possible exposure. Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022+A1:2024). Apron (BS EN 14605:2005+A1:2009). Protective work clothing resistant to liquid chemicals (BS EN 14605:2005+A1:2009). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024). Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. Protective antistatic clothing BS EN 1149 (1:2006, 2:1997 and 3:2004, 5:2018), protective antistatic shoes (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear a suitable protective breathing mask (BS EN 136) with filter A (BS EN 14387). If dusting is occuring, use repiratory equipment. Wear suitable protective breathing mask (BS EN 136) with filter A2-P3 (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure
No information.

Organisational measures to prevent exposure
No information.

Technical measures to prevent exposure
Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	grey
Odour	styren like
Odour threshold	0.15 ppm (styrene)
Melting/freezing point	-30 °C (styrene)
Boiling point or initial boiling point and boiling range	145 °C (styrene)
Flammability	No information.
Lower and upper explosion limit	0.9 — 6.8 % v/v
Flash point	31 °C (styrene)
Auto-ignition temperature	490 °C (styrene)
Decomposition temperature	No information.
pH	No information.
Viscosity (dynamic)	13000 mPas at 25 °C
Viscosity (kinematic)	10000 mm^2/s at 25 °C
Solubility (Water)	Insoluble
Solubility (Organic solvent)	Soluble in most organic solvents
Partition coefficient n-octanol/water (log value)	3 (styrene)
Vapour pressure	6 hPa at 20 °C (styrene)
Density	1.3 — 1.35 g/cm^3 at 20 °C
Relative vapour density	3.6 (styrene)
Particle characteristics	No information.

9.2 Other information
Information with regard to physical hazard classes
No information.

Other safety characteristics
No information.

Other information
Flammability Limits in Air: Upper 6.1 – 6.8%; Lower 0.9 – 1.1%.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Temperature above flashpoint: higher fire/explosion hazard.

10.2 Chemical stability
Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions
Vapours and air can form flammable or explosive mixtures. The risk of polymerization.

10.4 Conditions to avoid
Protect from heat, direct sunlight, open fire, sparks. Extremes of temperature and direct sunlight. Take precautionary measures against static discharges. Avoid contact with incompatible materials.

10.5 Incompatible materials
Strong oxidising agents.
Peroxides.
Reducing agents. Polymerisation catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products
Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Hazardous combustion products, see Section 5 of the safety data sheet.

SECTION 11: TOXICOLOGICAL INFORMATION

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

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
Aluminum hydroxide	oral	LD_{50}	rat	/	> 2000 mg/kg bw	OECD 423	/
Aluminum hydroxide	inhalation	LC50	rat	4 h	> 2.3 mg/l air	OECD 403, EPA 40 CFR 158	/
Styrene	oral	LD_{50}	rat	/	5000 mg/kg	/	/
Styrene	dermal	LD_{50}	rat	24 h	> 2000 mg/kg bw	OECD 402	/
Styrene	inhalation	LC_{50}	rat	4 h	11.8 mg/l	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	oral	LD_{50}	rat	/	632 mg/kg	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	dermal	LD_{50}	/	/	> 2000 mg/kg	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	inhalation	LC_{50}	/	4 h	> 20 mg/l	/	/
titanium dioxide	oral	LD_{50}	rat	/	> 5000 mg/kg bw	OECD 425 EPA OPPTS 870.1100	/
titanium dioxide	inhalation	LC_{50}	rat	4 h	> 6.82 mg/l air	/	/
synthetic amorphuos silica, fumed, crystalline free	dermal	LD_{50}	rabbit	/	> 5000 mg/kg	/	/

Name	Exposure route	Type	Species	Time	Value	Method	Remark
synthetic amorphuos silica, fumed, crystalline free	inhalation	LC_{50}	rat	4 h	> 0.14 mg/l	OECD 403	/
dipropylene glycol methyl ether	oral	LD_{50}	rat	/	> 5000 mg/kg	/	/
dipropylene glycol methyl ether	dermal	LD_{50}	rabbit	/	> 5000 mg/kg	/	/
carbon black	oral	LD_{50}	rat	/	> 10000 mg/kg bw	OECD 401	/
cobalt bis(2-ethylhexanoate)	oral	LD_{50}	rat	/	3129 mg/kg bw	OECD 425	/
cobalt bis(2-ethylhexanoate)	dermal	LD_{50}	rat	/	> 2000 mg/kg bw	OECD 402	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Aluminum hydroxide	rabbit	/	not irritating	OECD 404	/
Styrene	rabbit	/	Irritating.	/	In vivo
titanium dioxide	rabbit	/	not irritating	OECD 404, EPA OPPTS 870.2500	In vivo
synthetic amorphuos silica, fumed, crystalline free	rabbit	/	Non-irritant.	OECD 404	/
cobalt bis(2-ethylhexanoate)	/	/	Non corrosive.	OECD 431/EU Method B.40	in vitro

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Aluminum hydroxide	/	rabbit	/	not irritating	OECD 405	In vivo
Styrene	/	rabbit	/	Irritating.	/	In vivo
titanium dioxide	/	rabbit	/	not irritating	OECD 405, EU Method B.5, EPA OPPTS 870.2400	/
synthetic amorphuos silica, fumed, crystalline free	/	rabbit	/	No irritant effect.	OECD 405	/
cobalt bis(2-ethylhexanoate)	/	/	/	moderately irritating	OECD 437, EU B.47	/
cobalt bis(2-ethylhexanoate)	/	rabbit	/	Irritating.	OECD 405	/

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Aluminum hydroxide	dermal	guinea pig	/	Does not cause skin sensitisation.	OECD 406, EPA OPPTS 870.2600	in vivo
Aluminum hydroxide	inhalation	guinea pig	/	Non sensitising.	/	in vivo
Styrene	dermal	/	/	Does not cause skin sensitisation.	/	/
Styrene	inhalation	/	/	Not classified.	/	/
titanium dioxide	dermal	guinea pig	/	Non sensitising.	OECD 406, EU Method B.6, EPA OPP 81-6	in vivo
titanium dioxide	dermal	mouse	/	Non sensitising.	OECD 429	/
synthetic amorphuos silica, fumed, crystalline free	dermal	/	/	Non sensitising.	/	/
synthetic amorphuos silica, fumed, crystalline free	inhalation	/	/	Non sensitising.	/	/
cobalt bis(2-ethylhexanoate)	dermal	mouse	/	May cause sensitisation by skin contact.	OECD 429	/

Additional information

The product is not classified as sensitising.
It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
Aluminum hydroxide	in-vitro mutagenicity	mouse	/	Negative.	OECD 476 (mammalian Cell Gene Mutation Test)	/
Aluminum hydroxide	in-vivo mutagenicity	rat	/	Negative.	OECD 474	/
Styrene	in-vitro mutagenicity	Bacteria	/	Ambiguous.	OECD 471	S.typhimurium G46,TA1530, TA1535, TA100, TA98, TA1538, TA1537
Styrene	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Ambiguous.	OECD 476	Hamster
Styrene	in-vitro mutagenicity	/	/	Positive.	OECD 473, 479	Chromosome aberration assay
Styrene	in-vivo mutagenicity	mouse	/	Negative.	OECD 474, 486	/
titanium dioxide	in-vitro mutagenicity	Salmonella typhimurium TA98, TA100, TA102, TA 1535, TA1537	/	Negative.	OECD 471	Gene Mutation
titanium dioxide	in-vitro mutagenicity	mouse	/	Negative.	OECD 476	In vitro mammalian cell gene mutation test.
titanium dioxide	in-vitro mutagenicity	hamster	/	Negative.	OECD 473	Chromosome aberration assay

Name	Type	Species	Time	result	Method	Remark
titanium dioxide	in-vivo mutagenicity	rat	/	Negative.	OECD 474	/
synthetic amorphuos silica, fumed, crystalline free	in-vitro mutagenicity	/	/	Negative.	OECD 471 (Bacterial Reverse Mutation Test)	Ames test
synthetic amorphuos silica, fumed, crystalline free	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative.	OECD 476	/
synthetic amorphuos silica, fumed, crystalline free	in-vitro mutagenicity	/	/	Negative.	OECD 473	Chromosome aberration assay
synthetic amorphuos silica, fumed, crystalline free	in-vivo mutagenicity	rat	/	Negative.	/	/
cobalt bis(2-ethylhexanoate)	in-vitro mutagenicity	Salmonella typhimurium TA98, TA100, TA102, TA 1535, TA1537	/	Negative.	OECD 471	Gene Mutation Test
cobalt bis(2-ethylhexanoate)	in-vitro mutagenicity	mouse	/	Negative.	OECD 476	Gene Mutation Test
cobalt bis(2-ethylhexanoate)	in-vivo mutagenicity	rat	/	Negative.	OECD 474, 475	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
Aluminum hydroxide	inhalation	NOAEC/LOAEC	rat	/	50 mg/m^3 air	Negative	OECD TG 413	/
Styrene	inhalation	NOAEC	rat	/	≥ 4.34 mg/m^3 air	Negative	OECD 453	/
Styrene	inhalation (vapours)	LOAEC	mouse (male/female)	/	0.09 - 0.18 mg/l	Positive	OECD 453	/
Styrene	oral	NOAEL	rat	/	≥ 2000 mg/kg bw/day	positive	/	/
Styrene	oral	LOAEL	mouse	/	150 mg/kg bw/day	Positive	/	/
synthetic amorphuos silica, fumed, crystalline free	oral	NOAEL	rat	/	1800 - 3200 mg/kg bw/day	Negative	OECD 453	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
Aluminum hydroxide	Reproductive toxicity	NOAEL	rat	/	1000 mg/kg bw/day	Negative.	OECD 422	oral

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
Aluminum hydroxide	Developmental toxicity	NOAEL	rat	/	266 mg/kg bw/day	Negative.	OECD 414	oral
Styrene	Effects on fertility	NOAEL/LOAEL	rat	60 days	100 - 200 mg/kg bw/day	Positive.	/	inhalation
Styrene	Effects on fertility	NOAEL/LOAEL	rat	60 days	200 - 400 mg/kg bw/day	Positive.	OECD 422	oral
Styrene	Reproductive toxicity	LOAEC (P, F1)	rat	/	2.13 mg/L	Negative.	two-generation study; OECD 416	inhalation
Styrene	Reproductive toxicity	NOAEC (P, F1)	rat	/	0.64 mg/L	Negative.	two-generation study; OECD 416	inhalation
Styrene	Reproductive toxicity	NOAEC (F2)	rat	/	0.21 mg/L	Negative.	two-generation study; OECD 416	inhalation
Styrene	Reproductive toxicity	LOAEC (F2)	rat	70 days	0.64 mg/L	Negative.	two-generation study; OECD 416	inhalation
Styrene	Maternal toxicity + developmental toxicity	NOAEC/LOAEC	rat	50 days	1.08 - 2.15 mg/L	Positive.	/	inhalation
Styrene	Maternal toxicity	LOAEC	rat	/	1.28 mg/L	Positive.	OECD 414	6-15 days; inhalation
Styrene	Developmental toxicity	NOAEC	rat	/	≥ 2.56 mg/L	Negative.	OECD 414	6-15 days; inhalation
Styrene	Maternal toxicity + developmental toxicity	NOAEC	rabbit	/	2.56 mg/L	Negative.	OECD	6-18 days; inhalation
titanium dioxide	Maternal toxicity + developmental toxicity	NOAEL	rat	20 days	1000 mg/kg bw/day	Negative.	OECD 414	oral
synthetic amorphuos silica, fumed, crystalline free	Reproductive toxicity	NOAEL	rat	/	497 mg/kg bw/day	Negative.	OECD 415	oral
synthetic amorphuos silica, fumed, crystalline free	Teratogenicity	NOAEL	rat	/	1350 mg/kg bw/day	Negative.	OECD 414	oral
synthetic amorphuos silica, fumed, crystalline free	Maternal toxicity	NOAEL	rat	/	1350 mg/kg bw/day	Negative.	OECD 414	oral

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
Aluminum hydroxide	oral	NOAEL	rat	28 days	/	/	300 mg/kg bw	/	OECD 407	/
Aluminum hydroxide	inhalation (dust)	NOAEC	hamster	/	/	/	70 mg/m³ air	/	OECD 413	Read-across
Aluminum hydroxide	inhalation (aerosol)	NOAEC	rat	/	/	/	3 mg/m³ air	/	OECD 412	/
Aluminum hydroxide	inhalation (aerosol)	LOAEC	rat	/	/	/	28 mg/m³ air	/	OECD 412	/
Styrene	-	-	/	/	/	ear	/	Causes damage to organs through prolonged or repeated exposure.	/	/
Styrene	inhalation	NOAEC	rat (male)	28 days	/	/	3.47 mg/L air	/	/	/
Styrene	inhalation	NOAEC	/	28 days	/	/	2.13 mg/L air	/	/	ototoxicity
Styrene	inhalation	NOAEC	mouse	28 days	/	/	0.181 mg/L air	/	OECD 412	/
Styrene	inhalation	NOAEC	rat	28 days	/	/	0.688 mg/L air	/	OECD 412	/
Styrene	inhalation	NOAEC	rat	/	/	nose	0.85 mg/L air	/	/	/
Styrene	inhalation	NOAEC	rat	/	/	overall	2.13 mg/L air	/	/	/
Styrene	oral	NOAEL	rat	/	/	/	1000 mg/kg bw/day	/	/	/
Styrene	oral	LOAEL	rat	/	/	/	2000 mg/kg bw/day	/	/	/
Styrene	oral	NOAEL	mouse	/	/	/	150 mg/kg bw/day	/	/	/
Styrene	oral	LOAEL	mouse	/	/	/	300 mg/kg bw/day	/	/	/
Styrene	inhalation	LOAEC	rat	/	/	/	0.21 mg/L air	/	OECD 453	/
Styrene	inhalation	NOAEC	rat	/	/	ear	0.85 mg/L air	/	/	/
Styrene	inhalation	LOAEC	rat	/	/	ear	3.41 mg/L air	/	OECD 453	/

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
titanium dioxide	oral	NOEL	rat	29 days	/	/	24000 mg/kg bw/day	/	OECD 407	/
titanium dioxide	oral	NOAEL	rat	93 days	/	/	> 1000 mg/kg/day	/	OECD 408	/
synthetic amorphuos silica, fumed, crystalline free	oral	NOAEL	rat	/	/	/	4000 - 4500 mg/kg/day	/	OECD 408	/
synthetic amorphuos silica, fumed, crystalline free	inhalation	NOEC	rat	/	/	/	1.3 mg/m^3	/	/	/
synthetic amorphuos silica, fumed, crystalline free	inhalation	NOEC	rat	90 days	/	/	< 1.3 mg/m^3	/	OECD 413	/
synthetic amorphuos silica, fumed, crystalline free	dermal	NOAEL	rabbit	/	/	/	≥ 10000 mg/kg bw/day	/	/	/
cobalt bis(2-ethylhexanoate)	oral	NOAEL	rat	28 days	/	/	30 mg/kg bw/day	Positive	OECD 422	/
cobalt bis(2-ethylhexanoate)	oral	NOAEL	rat	90 days	/	/	3 mg/kg bw/day	/	OECD 408	/

Additional information

Causes damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

For symptoms see section 4.2.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

For product

No data.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Aluminum hydroxide	EC_{50}	> 100 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
Aluminum hydroxide	EC_{50}	> 100 mg/L	46 h	crustacea	*Daphnia magna*	OECD 202	/
Aluminum hydroxide	LC_{50}	> 100 mg/L	96 h	fish	*Salmo trutta*	OECD 203	/
Aluminum hydroxide	NOEC	≥ 0.004 mg/kg	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
Aluminum hydroxide	NOEC	> 48.2 mg/L	96 h	fish	*Pimephales promelas*	/	/
Styrene	LC_{50}	4.9 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	/
Styrene	EC_{50}	4.7 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
Styrene	NOEC	1.9 mg/L	/	crustacea	*Daphnia magna*	OECD 202	/
Styrene	LC_{50}	4.02 - 10 mg/L	96 h	fish	*Pimephales promelas*	OECD 203	/
Styrene	-	500 mg/L	30 min	bacteria	Activated sludge	OECD 209	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	LC_{50}	100 mg/L	96 h	fish	*Danio rerio*	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	EC_{50}	131 mg/L	48 h	crustacea	*Daphnia magna*	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	EC_{50}	82 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	/	/
titanium dioxide	EC_{50}	> 100 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
titanium dioxide	NOEC	≥ 100 mg/kg	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
titanium dioxide	EC_{50}	> 100 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
titanium dioxide	LC_{50}	> 100 mg/L	96 h	fish	*Carassius auratus*	OECD 203	/
titanium dioxide	NOEC	≥ 100 mg/L	96 h	fish	*Carassius auratus*	OECD 203	/
titanium dioxide	EC_{50}	> 1000 mg/L	3 h	microorganisms	Activated sludge	OECD 209	/
titanium dioxide	NOEC	≥ 1000 mg/L	3 h	microorganisms	Activated sludge	OECD 209	/
synthetic amorphuos silica, fumed, crystalline free	EC_{50}	≥ 1000 mg/L	24 h	crustacea	*Daphnia magna*	OECD 202	/
synthetic amorphuos silica, fumed, crystalline free	LC_{50}	> 10000 mg/L	96 h	fish	*Brachydanio rerio*	OECD 203	/
dipropylene glycol methyl ether	LC_{50}	> 1000 mg/L	96 h	fish	*Pimephales promelas*	/	/
dipropylene glycol methyl ether	EC_{50}	> 1000 mg/L	48 h	crustacea	*Daphnia magna*	/	/
carbon black	LC_{50}	> 1000 mg/L	96 h	fish	*Brachydanio rerio*	/	/
carbon black	EC_{50}	> 10000 mg/L	72 h	algae	*Scenedesmus subspicatus*	/	/
cobalt bis(2-ethylhexanoate)	EC_{50}	144 µg/l	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
cobalt bis(2-ethylhexanoate)	NOEC	32.2 µg/l	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
cobalt bis(2-ethylhexanoate)	LOEC	52.7 µg/l	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
cobalt bis(2-ethylhexanoate)	LC_{50}	1.512 mg/L	96 h	fish	*Oncorhynchus mykiss*	ASTM guideline (1996)	/
cobalt bis(2-ethylhexanoate)	NOEC	0.939 mg/L	96 h	fish	*Oncorhynchus mykiss*	ASTM guideline (1996)	/
cobalt bis(2-ethylhexanoate)	LOEC	1.577 mg/L	96 h	fish	*Oncorhynchus mykiss*	ASTM guideline (1996)	/
cobalt bis(2-ethylhexanoate)	EC_{10}	3.73 mg/L	30 min	activated sludge	/	OECD 209	/

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
cobalt bis(2-ethylhexanoate)	EC_{50}	120 mg/L	30 min	activated sludge	/	OECD 209	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Styrene	NOEC	1.01 mg/l	21 days	crustacea	*Daphnia magna*	/	/
Styrene	LOEC	2.06 mg/l	21 days	crustacea	*Daphnia magna*	/	/
Styrene	EC_{50}	1.88 mg/l	21 days	crustacea	*Daphnia magna*	OECD 203	/
Styrene	LC_{50}	120 mg/kg soil dw	14 days	earthworms	*Eisenia fetida*	OECD 207	/
Styrene	LOEC	65 mg/kg soil dw	/	earthworms	*Eisenia fetida*	OECD 207	burrowing time and mean percent weight change
Styrene	LOEC	180 mg/kg soil dw	/	earthworms	*Eisenia fetida*	OECD 207	survival
Styrene	NOEC	34 mg/kg soil dw	/	earthworms	*Eisenia fetida*	OECD 207	mean percent weight change
cobalt bis(2-ethylhexanoate)	EC_{50}	90.1 µg/L	7 days	algae	*Lemna minor*	OECD 221	/
cobalt bis(2-ethylhexanoate)	NOEC	3 µg/L	7 days	algae	*Lemna minor*	OECD 221	/
cobalt bis(2-ethylhexanoate)	LOEC	8.8 µg/L	7 days	algae	*Lemna minor*	OECD 221	/
cobalt bis(2-ethylhexanoate)	NOECr	60.8 µg/L	21 days	crustacea	*Daphnia*	OECD 211	/
cobalt bis(2-ethylhexanoate)	LC50	121.3 µg/L	21 days	crustacea	*Daphnia*	OECD 211	/
cobalt bis(2-ethylhexanoate)	LOECR	93.3 µg/L	21 days	crustacea	*Daphnia*	OECD 211	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
Styrene	biodegradability	87 %	20 days	readily biodegradable	Similar to OECD 301D	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	biodegradability	14 %	28 days	/	/	20 mg/L
dipropylene glycol methyl ether	solubility in water	1000 - 10000 mg/L	/	rapidly biodegradable	/	/
cobalt bis(2-ethylhexanoate)	biodegradability	60 %	10 days	readily biodegradable	OECD 301 B	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For product

Value	Temperature °C	pH	Concentration	Method
3	/	/	/	styrene

For components

Name	Value	Temperature °C	pH	Concentration	Method
Styrene	3	/	/	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	3.17	/	/	/	/
dipropylene glycol methyl ether	0.0043	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
Styrene	BCF	/	74	/	/	/	Calculated value
Reaction products of phosphoryl trichloride and 2-methyloxirane	BCF	/	8	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
Styrene	Soil	/	352	/	/	Koc
Styrene	Soil	log KOC	2.55	/	/	/
Reaction products of phosphoryl trichloride and 2-methyloxirane	Soil	/	324.2	Moderate mobility in soil.	/	Koc
Reaction products of phosphoryl trichloride and 2-methyloxirane	Soil	Henry constant (H)	0.006 $Pa.m^3$ / mol	/	/	/

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

For product

No data.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

For components

Aluminum hydroxide

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Styrene

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Dispose of in accordance with applicable waste disposal regulation. Cleaned uncontaminated packaging may be taken for recycling. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1866	UN 1866	UN 1866	UN 1866
14.2 UN proper shipping name			
RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3 Transport hazard class(es)			
3	3	3	3
			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (D/E) Classification code F1	Limited quantities 5 L EmS F-E, S-E Flash point 31 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y344 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 10 L Packing Instructions (Pkg Inst) 355 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 L Special provisions A3	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions
Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Terms of restriction: 3, 40. Seveso P5c: FLAMMABLE LIQUIDS.

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes
8.1 Control parameters

Key literature references and sources for data
No information.

Abbreviations and acronyms
ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H360FD May damage fertility. May damage the unborn child.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.



- [x] Provided correct labelling of the product
- [x] Compliance with the local legislation
- [x] Provided correct classification of the product
- [x] Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.