

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended



## SMOG DOCTOR IMMORTAL C2/C3 5W30

Creation date 28th October 2021  
Revision date Version 2.0

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

**1.1. Product identifier** **SMOG DOCTOR IMMORTAL C2/C3 5W30**  
Substance / mixture mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Engine oil

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**Main intended use**

PC-TEC-11 Lubricants, greases, release agents

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

**Manufacturer**

Name or trade name	VENOL MOTOR OIL Spółka z ograniczoną odpowiedzialnością
Address	Lodowa 107, Łódź, 93-232 Poland
Identification number (CRN)	364695098
VAT Reg No	PL9820376499
Phone	+42 649 15 68 w.29
E-mail	venol@venol.pl
Web address	venol.de

**Competent person responsible for the safety data sheet**

Name	Laboratorium VENOL MOTOR OIL
E-mail	laboratorium@venol.pl

**1.4. Emergency telephone number**

National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse effects on human health and the environment**

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to accordance with all national regulations.

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Mixture does contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-064-00-8 CAS: 151006-62-1 EC: 417-070-7 Registration number: 01-0000016388-62-XXXX	branched hexatriacontane	2-8	Aquatic Chronic 4, H413	
Index: 649-474-00-6 CAS: 64742-65-0 EC: 265-169-7 Registration number: 01-2119471299-27-XXXX	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	<3	Asp. Tox. 1, H304	3
CAS: 64742-54-7 EC: 265-157-1 Registration number: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	<3		
EC: 701-251-5 Registration number: 01-2119524004-56-XXXX	Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50	<2	Aquatic Chronic 4, H413	
Index: 604-092-00-9 CAS: 74499-35-7	phenol, (tetrapropenyl) derivatives	<0,05	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	2
Index: 612-026-00-5 CAS: 122-39-4 EC: 204-539-4	diphenylamine	<0,05	Acute Tox. 3, H301+H311+H331 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	1

#### Notes

- 1 Substance with a Union workplace exposure limit.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation
- 3 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Move the victim to fresh air, keep him warm and calm. Contact a doctor if disturbing symptoms occur.

##### If on skin

Take off contaminated clothing. Wash contaminated skin with plenty of soap and water, and then rinse with water. In case of disturbing symptoms, consult a doctor. Wash clothes before reuse.

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### If in eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for at least 15 minutes. with open eyelids. Avoid strong water stream - risk of cornea damage. Consult a doctor if disturbing symptoms occur.

### If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor in case of disturbing symptoms.

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

#### If inhaled

For a high vapour concentration the product may cause headache and dizziness, irritation of mucus membranes of the respiratory system, during prolonged exposure, aberrations of the central nervous system, movement coordination troubles, confusion, drowsiness, inconscience.

#### If on skin

For a prolonged contact possible dryness, skin cracking and chronic dermatitis.

#### If in eyes

Redness, tearing, burning.

#### If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

Decision on the method of the helping procedure shall be made by a physician after a thorough assessment of the victim's condition. Symptomatic treatment.

#### More information

Other relevant information is not available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foams, water mist, dry agents, CO<sub>2</sub>.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

The product is not classified as flammable. Cool containers exposed to fire from a safe distance with a spray of water. Collect used extinguishing media. Do not allow them to enter surface water, ground water and soil. Use general protection measures typical in the event of fire. Do not stay in the fire endangered area without suitable chemical-resistant clothing and a self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

For non emergency personnel: restrict access of outsiders to the affected area until appropriate decontamination operations have been finished. For large releases insulate the threatened area. Do not inhale vapours and aerosols. Avoid skin and eye contact. Remove all ignition sources, extinguish open fire, do not smoke. Use personal protective equipment. Spilt oil may cause slippery surface. For emergency responders: ensure that the failure and its effects are removed by trained personnel only. Use personal protection. Do not inhale vapours. Avoid skin and eye contact.

### 6.2. Environmental precautions

Do not dispose to drains, surface and ground water. For release of bigger amounts of the mixture take measures to prevent spreading in the environment. Notify relevant rescue services.

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

Place a damaged packaging in a substitute pack. Collect spill with non-flammable materials absorbing liquids (e.g. sand, soil, diatomaceous earth, vermiculite) and place it in closed containers. Treat the collected material as waste. Clean the contaminated place with water and detergent. Do not use sparking tools.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Work in accordance with health and safety rules. Do not eat, drink or smoke while working. Avoid eye and skin contact. Do not inhale vapours and aerosols. Wash your hands before a break and after finish of work. Ensure proper ventilation. Remove ignition sources - do not smoke. Do not use sparking tools. Containers not in use keep closed tight. Keep contaminated/soaked clothing away from heat and ignition sources.

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

Store only in a cool and well ventilated place. Do not store together with food, groceries and animal feed. Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10).

#### 7.3. Specific end use(s)

No information about uses other than those mentioned in subsection 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

##### United Kingdom

##### EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
diphenylamine (CAS: 122-39-4)	WEL 8h	10 mg/m <sup>3</sup>
	WEL 15min	20 mg/m <sup>3</sup>

#### 8.2. Exposure controls

Observe the general rules of safety and hygiene. Do not eat, drink or smoke while working. Wash hands and face thoroughly before breaks and after work. Avoid skin contact. Take off contaminated clothing and wash it before reuse. Do not inhale vapors / mists. Provide general and / or local ventilation in the workplace in order to maintain the concentrations of harmful agents in the air below the established limit values. Topical exhaust is preferred as it removes contaminants from where they originate, preventing them from spreading.

##### Eye/face protection

Use protective goggles if a risk of splash occurs.

##### Skin protection

Hand and body protection: it is recommended to use protective gloves made of e.g. perbutyl, viton, butyl rubber. For short-term contact use protective gloves with the protection index 2 or more (breakthrough time > 30 min). For long term contact use protective gloves with the protection index 6 (breakthrough time > 480 min). Use protective clothing.

Material that is used for gloves must be impermeable and resistant to the product action. The material should be selected considering breakthrough times, permeation and degradation rate. In addition, the selection of appropriate gloves does not depend on the material only, but also on other qualitative features and changes depending on the manufacturer. Obtain information on the exact breakthrough time from the manufacturer and observe it.

##### Respiratory protection

Not required if there is a proper ventilation. If vapours and aerosols are formed use absorbing or absorbing and filtering equipment with an adequate protection class (class 1/protection against gases or vapours with a volumetric concentration in the air not exceeding 0.1%; class 2/ protection against gases or vapours with a volumetric concentration in the air not exceeding 0.5%; class 3/ protection against gases or vapours with a volumetric concentration in the air up to 1%). If oxygen concentration is . 17% and/or the maximum toxic substance concentration in the air is .1,0 % vol. isolating equipment should be applied.

##### Thermal hazard

Data not available.

##### Environmental exposure controls

Avoid discharges to the environment, do not dispose to drains. Possible emissions from ventilation systems and process equipment should be checked for their conformity with the environmental protection law requirements.

### SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	brown
Odour	characteristic of petroleum products
Melting point/freezing point	data not available

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Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	≥230 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	63 mm <sup>2</sup> /s at 40 °C
Kinematic viscosity	11,6 mm <sup>2</sup> /s at 100 °C
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	

### 9.2. Other information

viscosity index: 170min pour point: -42°C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactive product. Does not undergo hazardous polymerization. See also section 10.3 - 10.5.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

Avoid exposure to direct sunlight, heat and ignition sources.

### 10.5. Incompatible materials

Avoid contact with strong oxidants.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat (Rattus norvegicus)	
Skin	LD <sub>50</sub>	>3000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>5 mg/l			

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	>5000 mg/kg		Rabbit	
	LC <sub>50</sub>	>5 mg/l			

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### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Harmful to aquatic life with long lasting effects.

branched hexatriacontane

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		125 mg/l	21 day	Daphnia (Daphnia magna)	

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified

Parameter	Method	Value	Time of exposure	Species	Environment
LL 50	OECD 203	>100 mg/l	96 hour	Fishes (Pimephales promelas)	
EC <sub>50</sub>	OECD 202	>1000 mg/kg	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>	OECD 201	>100 mg/kg	72 hour	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified

Parameter	Method	Value	Time of exposure	Species	Environment
LL 50		100 mg/l	96 hour	Fishes (Pimephales promelas)	
EC <sub>50</sub>		>1000 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>		>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

### Chronic toxicity

branched hexatriacontane

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	OECD 203	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
NOEC	OECD 201	>1000 mg/l	96 hour	Algae (Selenastrum capricornutum)	
EC <sub>50</sub>	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	OECD 211	10 mg/l	21 day	Daphnia (Daphnia magna)	

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		10 mg/l	21 day	Daphnia (Daphnia magna)	
NOEC		100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

### 12.2. Persistence and degradability

Data not available.

### 12.3. Bioaccumulative potential

Data not available.

### 12.4. Mobility in soil

Product spreads in the soil; It can penetrate deep into the soil and cause pollution groundwater. Mobility of the components of the mixture depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of the soil, including its structure, climatic conditions and organisms soil, (mainly bacteria, fungi, algae, invertebrates).

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

not available

### 12.7. Other adverse effects

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The mixture is not classified as posing a threat to the ozone layer. Consider the possibility other harmful effects of the individual components of the mixture on the environment (eg disturbance of the hormonal economy). Low volatility product. Hydrocarbons being components of a product exhibit a low tendency to penetrate into the atmosphere. Water insoluble. Is gathering on water surface forming a layer that hinders the oxygen exchange. High molecular weight hydrocarbons. They can sediment in water.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. The waste code should be given at the place of its production.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

not subject to transport regulations

#### 14.2. UN proper shipping name

not relevant

#### 14.3. Transport hazard class(es)

not relevant

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

#### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

### SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.



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### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

phenol, (tetrapropenyl) derivatives

Restriction	Conditions of restriction
30	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"><li>– as substances,</li><li>– as constituents of other substances, or,</li><li>– in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>– either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>– the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>– motor fuels which are covered by Directive 98/70/EC,</li><li>– mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>– fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li><li>(f) devices covered by Regulation (EU) 2017/745.</li></ul>

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360F	May damage fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

### Guidelines for safe handling used in the safety data sheet

P273	Avoid release to the environment.
P501	Dispose of contents/container to accordance with all national regulations.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

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CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LL <sub>50</sub>	Lethal Loading for 50% of tested organisms
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

sections 1-16

### More information

Classification procedure - calculation method.

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### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.