

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Petroleum benzine**Article number:** 1145, 1152, 1176, 1185, 1186, 1194**CAS Number:**

64742-49-0

**EC number:**

265-151-9

**Index number:**

649-328-00-1

**Registration number** This product is a mixture. UK REACH registration numbers see section 3.**1.2 Relevant identified uses of the substance or mixture and uses advised against****Life cycle stages** IS Use at industrial Sites**Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU24 Scientific research and development

**Product category**

PC19 Intermediate

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

PC29 Pharmaceuticals

PC39 Cosmetics, personal care products

PC40 Extraction agents

**Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

**Environmental release category**

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

**Application of the substance / the mixture**

Industrial use

Laboratory chemicals

Reagent for analysis

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Th. Geyer GmbH &amp; Co. KG

Dornierstr. 4 – 6

D-71272 Renningen

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417

www.thgeyer.de

(Contd. on page 2)

E

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 1)

sicherheitsdatenblaetter@thgeyer.de

- **Further information obtainable from:** Product management department

- **1.4 Emergency telephone number:**

National Poisons Information Service

City Hospital

Dudley Road

Birmingham B18 7QH

Tel.:Emergency: (00 44) 87 06 00 62 66

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

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

- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2      H361f Suspected of damaging fertility.

STOT RE 2      H373 May cause damage to the nervous system through prolonged or repeated exposure.  
Route of exposure: Inhalation.

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the GB CLP regulation.

- **Hazard pictograms**



GHS02



GHS07



GHS08



GHS09

- **Signal word** Danger

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361f Suspected of damaging fertility.

(Contd. on page 3)

E

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 2)

H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

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

P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

CAS: 64742-49-0 Petroleum benzine

Consisting of: 109-66-0 n-Pentane (50–100%); 78-78-4 methylbutane (0.25–2.5%)

· **Identification number(s)**

· **EC number:** 265-151-9

· **Index number:** 649-328-00-1

· **Additional information:** Benzene content < 0.1 %

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

First aider needs to protect himself.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove person from danger area.

Take affected persons into fresh air and keep quiet.

In case of pulmonary irritation, administer glucocorticoid metered dose inhaler

Seek medical treatment.

· **After skin contact:**

Flush contaminated skin with soap and plenty of water.

After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.

take care of a Possiblility of inhalation at the same time

(Contd. on page 4)

E

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 3)

- **After eye contact:**  
Protect unharmed eye.  
Rinse out opened eye for several minutes under running water.  
Remove contact lenses  
Seek immediate medical advice.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting - aspiration hazard.  
Call a doctor immediately.
- **Information for doctor:** Please observe safety data sheet/label.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Vertigo  
Asthma attacks  
Gastric or intestinal disorders  
Dazed feeling  
Disorientation  
Nausea  
Risk of aspiration  
In certain cases, the symptoms of poisoning may only appear after an extended period/after several hours
- **Hazards**  
Danger of pneumonia.  
Danger of pulmonary oedema.  
Danger of circulatory collapse.  
Danger of disturbed cardiac rhythm.  
Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Give Glucocorticoid-Aerosol in case of lung irritation.  
If necessary oxygen respiration treatment.  
Medical supervision for at least 48 hours.  
Later observation for pneumonia and pulmonary oedema.  
Monitor circulation.  
Symptomatic treatment.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Water spray, powder, carbon dioxide or foam. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
Combustible.  
Formation of toxic gases is possible during heating or in case of fire.  
Under certain fire conditions, traces of other toxic gases cannot be excluded.  
Explosive mixtures with air are possible even at normal temperatures.  
Vapours are heavier than air and may spread along floors.  
Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

(Contd. of page 4)

### SECTION 6: Accidental release measures

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

- Particular danger of slipping on leaked/spilled product.
- Keep away from ignition sources.
- Do not inhale dust.
- Avoid contact with eyes and skin.
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Wear protective equipment. Keep unprotected persons away.
- Consult an expert.

#### · 6.2 Environmental precautions:

- Danger of explosion.
- Keep contaminated washing water and dispose of appropriately.
- Do not allow to enter sewers/surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

- Cover drains.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Dispose of the material collected according to regulations.

#### · 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

- Keep receptacles tightly sealed.
- Keep away from heat and direct sunlight.
- Store in cool, dry place in tightly closed receptacles.
- Apply the general protection and hygiene measures for the handling with chemicals.

#### · Information about fire - and explosion protection:

- Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear of ignition sources.
- Fumes can combine with air to form an explosive mixture.

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

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

- Provide solvent resistant, sealed floor.
- Prevent any seepage into the ground.
- Store only in the original receptacle.

##### · Information about storage in one common storage facility: Store away from oxidising agents.

##### · Further information about storage conditions:

- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

##### · Storage class: 3A (Inflammatory, liquid substances)

##### · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · Ingredients with limit values that require monitoring at the workplace:

CAS: 64742-49-0 Petroleum benzine

WEL | Long-term value: 72 mg/m<sup>3</sup>, 20 ppm

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 5)

- **PNECs**

PNEC (Sweetwater)	0.23 mg/l
PNEC (Sweetwatersediment)	1.2 mg/kg
PNEC (Saltwater)	0.23 mg/l
PNEC (Saltwatersediment)	1.2 mg/kg
PNEC (STP)	3.6 mg/l
PNEC (Ground)	0.55 mg/kg

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Respiratory protection:** Not necessary if room is well-ventilated.

- **Hand protection**



Protective gloves

Labsolute@protective

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material** Level 1 for contact up to 30 min

- **Eye/face protection**



Tightly sealed goggles

- **Body protection:**



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Colourless

- **Odour:**

Characteristic

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

&gt;20–80 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

Not determined.

- **Lower:**

Not determined.

- **Upper:**

0.8 Vol % (Petrolether 40–60 °)

- **Flash point:**

&lt;0 °C

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

(Contd. of page 6)

· Ignition temperature:	240 °C (Petrolether 40–60 °)
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 20 °C	0.3–0.6 mm <sup>2</sup> /s
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	573 hPa
· Density and/or relative density	
· Density at 20 °C:	0.64–0.74 g/cm <sup>3</sup>
	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.

### · 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.

### · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable with proper storage and handling.
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
 Danger of explosion.  
 Forms explosive gas mixture with air.
- **10.4 Conditions to avoid** Heat, flames and sparks
- **10.5 Incompatible materials:** Avoid contact with other chemicals.

(Contd. on page 8)

E

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

(Contd. of page 7)

· **10.6 Hazardous decomposition products:** On fire: see chapter 5

### SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**· **Acute toxicity** Based on available data, the classification criteria are not met.· **LD/LC50 values relevant for classification:**

Inhalative	LC50	364 mg/l (rat)
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· **Skin corrosion/irritation** Causes skin irritation.· **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** Suspected of damaging fertility.· **STOT-single exposure**

May cause drowsiness and dizziness.

Based on available data, the classification criteria are not met.

· **STOT-repeated exposure**

May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Aspiration hazard** May be fatal if swallowed and enters airways.· **11.2 Information on other hazards**· **Endocrine disrupting properties** Substance is not listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**· **Additional ecological information:**· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

Observe local (country-specific) regulations and laws

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Chemicals must be disposed of in compliance with the respective national regulations.

· **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
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(Contd. on page 9)



# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 8)



07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP10	Toxic for reproduction
HP14	Ecotoxic

- **Uncleaned packaging:**

- **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1268
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	1268 PETROLEUM DISTILLATES, N.O.S., ENVIRONMENTALLY HAZARDOUS, special provision 640D PETROLEUM DISTILLATES, N.O.S.
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 (F1) Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	II
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	Environmentally hazardous substance, liquid Environmentally hazardous substance, liquid Yes Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Flammable liquids. 33 F-E,S-D E
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.

(Contd. on page 10)

E

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

(Contd. of page 9)

**· Transport/Additional information:**
**· ADR**

- Limited quantities (LQ) 500 ml
- Excepted quantities (EQ) Code: E3  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 300 ml
- Transport category 1
- Tunnel restriction code D/E

**· IMDG**

- Limited quantities (LQ) 500 ml
- Excepted quantities (EQ) Code: E3  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 300 ml

**· UN "Model Regulation":**
UN 1268 PETROLEUM DISTILLATES, N.O.S. 3, II,  
ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Inventory of Hazardous Chemicals** Substance is not listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 29, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
Substance is not listed.
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
Application, use and handling of our products take place out of our control and are solely your responsibility.

- **Department issuing SDS:** Product management

(Contd. on page 11)

# Safety data sheet

## according to 1907/2006/EC, Article 31

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

**Trade name: Petroleum benzine**

(Contd. of page 10)

**· Contact:** Product management**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**· \* Data compared to the previous version altered.**

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