

Page 1/11

# 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
<ul> <li>1.1 Product identifier</li> <li>Trade name: Petroleum benzine</li> <li>Article number: 1145, 1152, 1176, 1185, 1186, 1194</li> <li>CAS Number: 64742:49-0</li> <li>EC number: 265-151-9</li> <li>Index number: 649-328-00-1</li> <li>Registration number This product is a mixture. UK REACH registration numbers see section 3.</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against</li> <li>Life cycle stages IS Use at industrial Sites</li> <li>Sector of Use</li> <li>SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU9 Manufacture of fine chemicals</li> <li>SU10 Formulation (mixing) of preparations and/or re-packaging (excluding alloys)</li> <li>SU24 Scientific research and development</li> <li>Product category</li> <li>PC19 Intermediate</li> <li>PC29 Pharmaceuticals</li> <li>PC29 Pharmaceuticals</li> <li>PC29 Pharmaceuticals</li> <li>PC29 Pharmaceuticals</li> <li>PC39 Cosmetics, personal care products</li> <li>PC39 Cosmetics, personal care products</li> <li>PC40 C T chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</li> <li>PROC2 C Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.</li> <li>PROC2 C Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.</li> <li>PROC3 Manufacture or formulation in the chemical industry in closed bach processes with occasional controlled exposure or processes with equivalent containment conditions.</li> <li>PROC4 Chemical production where opportunity for exposure arises</li> <li>PROC5 Mixing or blending in batch processes</li> <li>PROC4 Chemical production where opportunity for exposure arises</li> <li>PROC5 Mixing or blending in batch processes</li> <li>PROC5 Mixing or blending in batch processes</li> <li>PROC5 Mixing or ble</li></ul>
ERC2 Formulation into mixture ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a Use of intermediate • <b>Application of the substance / the mixture</b> Industrial use Laboratory chemicals Reagent for analysis
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Th. Geyer GmbH &amp; Co. KG Dornierstr. 4 – 6 D-71272 Renningen</li> </ul>
Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de (Contd. on page 2)

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

# Trade name: Petroleum benzine

(Contd. of page 1) (Contd. of page 1)
• Further information obtainable from: Product management department
<b>1.4 Emergency telephone number:</b> 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
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> </ul>
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.
<ul> <li>• 2.2 Label elements</li> <li>• Labelling according to Regulation (EC) No 1272/2008</li> <li>The substance is classified and labelled according to the GB CLP regulation.</li> <li>• Hazard pictograms</li> </ul>
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)

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

#### Trade name: Petroleum benzine

	(Contd. of page 2)
H373 May cau Inhalatio	se damage to the nervous system through prolonged or repeated exposure. Route of exposure:
H304 Mav be f	fatal if swallowed and enters airways.
	aquatic life with long lasting effects.
• Precautionary	
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.
	331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	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 info	ormation:
EUH066 Repea	ated exposure may cause skin dryness or cracking.
2.3 Other haza	
· Results of PB	T and vPvB assessment
· <b>PBT:</b> Not appli	cable.
· vPvB: Not app	

## **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 %</li>

## **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 skijn 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)

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.
<ul> <li>Information for doctor: Please observe safety data sheet/label.</li> </ul>
<ul> <li>4.2 Most important symptoms and effects, both acute and delayed</li> </ul>
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
E 1 Extinguishing modio
• 5.1 Extinguishing media
Suitable extinguishing agents:     Water enrow newder, earlien diavide or feam. Eight lerger first with water enrow or elected resistant feam.
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 (CO2)
5.3 Advice for firefighters
Protective equipment:     Wear fully protective suit
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.
r revent me extinguishing water nom contanniating surface water of the ground water system.
(Contd. on page 5)

Version number 12

Creation Date: 04.07.2016

## Trade name: Petroleum benzine

revised on: 30.01.2023

(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	
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 ofignition 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)

(Contd. of 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

# · PNECs

INEOS	
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 list	s valid during the making were used as basis.
0.0 Experime controle	

### · 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**

General Information		
Physical state	Fluid	
Colour:	Colourless	
Odour:	Characteristic	
• Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and b	ooiling	
range	>20–80 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	0.8 Vol % (Petrolether 40–60 °)	
Flash point:	<0 °C	

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

	(Contd. of pag
Ignition temperature:	240 °C (Petrolether 40–60 °)
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	0.3–0.6 mm²/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/cm³
-	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)

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

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

(Contd. of page 7)

# **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)

- · 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

(Contd. on page 9)

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> <li>· 14.1 UN number or ID number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN1268
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> </ul>	1268 PETROLEUM DISTILLATES, N.O.S., ENVIRONMENTALLY HAZARDOUS, special provision 640D
· IMDG, IATA	PETROLEUM DISTILLATES, N.O.S.
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR	
Class	3 (F1) Flammable liquids.
· Label	3
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Environmentally hazardous substance, liquid
· Marine pollutant:	Environmentally hazardous substance, liquid Yes
Special marking (ADR):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D E
• 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
	(Contd. on page 2

revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

Trade name: Petroleum benzine

	(Contd. of page
· 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
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	1 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> </ul>	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)

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revised on: 30.01.2023

Version number 12

Creation Date: 04.07.2016

# Trade name: Petroleum benzine

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)
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
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
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
IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
or lo. Chomical hourade control (amolon of all randhan chomical coolety)
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.