

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021


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

- **1.1 Product identifier**
- **Trade name:** METAFLUX - Metaflon 70-25
- **UFI:** YUS0-F07R-H00W-03JD
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Techno Service GmbH  
Detmolder Strasse 515  
D-33605 Bielefeld  
Germany  
Tel. +49 521 924440  
www.metaflux.de  
info@metaflux.de
- **Further information obtainable from:**  
Sales Department  
+49 521 92444-0
- **1.4 Emergency telephone number:**  
+49 700124112112 or +1 872 5888271 (TSF) 24 h


## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
Aerosol 1            H222-H229    Extremely flammable aerosol. Pressurised container: May burst if heated.  
Skin Sens. 1        H317            May cause an allergic skin reaction.  
Aquatic Chronic 3   H412            Harmful to aquatic life with long lasting effects.

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  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
- 

GHS02



GHS07
- **Signal word** Danger
  - **Hazard-determining components of labelling:**  
Orange, sweet, extract
  - **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H317            May cause an allergic skin reaction.  
H412            Harmful to aquatic life with long lasting effects.
  - **Precautionary statements**  
P102            Keep out of reach of children.  
P210            Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211            Do not spray on an open flame or other ignition source.  
P251            Do not pierce or burn, even after use.  
P260            Do not breathe spray.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501            Dispose of contents / container as special waste.

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- **2.3 Other hazards** Smoking of contaminated tobacco may cause polymer-smoke-fever
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

##### Description:

Mixture of substances listed below with nonhazardous compounds or compounds with no duty to declare.

##### Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	25-50%
CAS: 64742-55-8 EC number: 920-114-2 Reg.nr.: 01-2119459347-30	Hydrocarbons, C14-C19, isoalcanes, cycloalcanes, < 2% aromatics ⚠ Asp. Tox. 1, H304	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1, H220; Press. Gas (Liq.), H280	10-25%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (<0,1% butadiene) ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
EC number: 918-167-1 Reg.nr.: 01-2119472146-39	Kohlenwasserstoffe, C11-C12, iso-Alkane, <2% Aromaten ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	2.5-10%
CAS: 64742-49-0 EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cycloalcanes ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-10%
CAS: 8028-48-6 EINECS: 232-433-8 Reg.nr.: 01-2119493353-35	Orange, sweet, extract ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥2.5-<10%
CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥0.25-<2.5%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	≤2.5%
CAS: 92045-53-9 EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics. ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥0.25-<2.5%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<0.25%

##### Additional information:

For the wording of the listed hazard phrases refer to section 16.

EC-Numbers beginning with "9" are numbers given by ECHA for the purpose of registration according REACH. Eventually mentioned CAS-numbers valid for countries which are not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Take affected persons out into the fresh air.  
Do not leave affected persons unattended.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. 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**  
In case of fire, the following can be released:  
Fluorinated pyrolysis products  
Hydrogen fluoride (HF)
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with skin / eyes and inhalation.  
Particular danger of slipping on leaked/spilled product.  
Ensure adequate ventilation  
Keep sources of ignition (flames, sparks, etc.) away. Do not use engines near by (potential source of ignition)
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb liquid components with liquid-binding material.  
Let volatiles evaporate - stem up residues mechanically
- **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**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.

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Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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

· **Storage:**

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

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **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.

· **Recommended storage temperature:** 15 - 35°C, max. 50°C

· **Storage class:** German storage class: 2B (Aerosols)

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

**SECTION 8: Exposure controls/personal protection**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

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

**106-97-8 butane, pure**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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**64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane**

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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**67-63-0 Propan-2-ol**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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**92045-53-9 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.**

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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**64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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**110-54-3 n-hexane**

WEL (Great Britain)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
IOELV (EU)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm

· **DNELs**

**64742-49-0 Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cycloalkanes**

Oral	DNEL Endverbraucher/ Consumers /Consommateur	699 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	699 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	773 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	608 mg /m <sup>3</sup> (.)
	DNEL Arbeiter / Workers/ Travailleur	2,035 mg /m <sup>3</sup> (.)

**64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane**

Oral	DNEL Endverbraucher/ Consumers /Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	1,377 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	13,964 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	1,137 mg /m <sup>3</sup> (.)

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	DNEL Arbeiter / Workers/ Travailleur	5,306 mg /m3 (.)
<b>67-63-0 Propan-2-ol</b>		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	26 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	319 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	888 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	89 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	500 mg /m3 (.)
<b>92045-53-9 Hydrocarbons, C7, n-alkanes, isoalkanes,cyclics.</b>		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	149 mg/kg BW/ day (hum)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	149 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	300 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	477 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	2,085 mg /m3 (.)

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

· **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374

· **Penetration time of glove material** > 480 min / 0,4 mm thickness

· **Eye protection:** Safety glasses in case of spittings

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· **Appearance:**

Form:	Aerosol
Colour:	Yellow tint
Odour:	Characteristic

· **pH-value:** Not applicable.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** -44 °C  
value concerns to propellant

· **Flash point:** -97 °C  
concerns to propellant

· **Flammability (solid, gas):** Contains extremely flammable liquefied gas

· **Ignition temperature:** 365 °C

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

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· <b>Explosion limits:</b>	
<b>Lower:</b>	1.5 Vol %
<b>Upper:</b>	10.9 Vol %
<b>Pressure (20°C)</b>	3 - 5 bar
· <b>Density at 20 °C:</b> ca. 0.677 g/cm <sup>3</sup>	
· <b>Solubility in / Miscibility with water:</b> Not miscible or difficult to mix.	
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	ca. 33 %
<b>VOC (EC)</b>	71.1 % = 481.6 g/L
· <b>9.2 Other information</b> No further relevant information available.	
· <b>Additional information</b> Vapors are heavier than air.	

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products.
- **Additional information:** Stable for a storage time of min. 24 months

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**106-97-8 butane, pure**

Inhalative	LC50/4 h	658 mg/l (rat)
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**74-98-6 propane**

Inhalative	LC50/4 h	>20 mg/l (rat)
	LC50 /15 min	1,443 mg/l (rat)

**75-28-5 isobutane (<0,1% butadiene)**

Inhalative	LC50/4 h	>20 mg/l (rat)
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**Kohlenwasserstoffe, C11-C12, iso-Alkane, <2% Aromaten**

Oral	LD50	>5,000 mg/kg (rat)
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**64742-49-0 Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cycloalkanes**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,800 mg/kg (rabbit)
Inhalative	LC50/4 h	>23.3 mg/l (rat)

**8028-48-6 Orange, sweet, extract**

Oral	LD50	4,400 mg/kg (rat)
Dermal	LD50	>2,200 mg/kg (rabbit)

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**67-63-0 Propan-2-ol**

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

- **Primary irritant effect:**
- **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**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****Kohlenwasserstoffe, C11-C12, iso-Alkane, <2% Aromaten**

EC50 &gt;1,000 mg/kg (fis)

**64742-49-0 Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cycloalkanes**

EC 50 / 48h 3 mg / l (daphnia)

LC 50 / 96 h &gt;13.4 mg / l (onc)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **AOX-indication:** contains organic halogens, which contribute to the AOX-waue
- **General notes:**  
Harmful to aquatic organisms  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
empty cans: material recycling  
filled cans: remove in accordance with local regulations

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**· Transport/Additional information:****· ADR****· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**· Transport category**

2

**· Tunnel restriction code**

D

**· Remarks:**

Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible.

Sole marking: Sign for "Limited Quantities" (rhombus with two black edges)

Entry in the transportation document: Transportation according chapter 3.4 ADR

Tunnel category "E" in case of a load of 8000 kg (rgross weight) or more.

**· IMDG****· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**· UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information****· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· Directive 2012/18/EU****· Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**· National regulations:****· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	0.1
NK	16.6

**· 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.

**· Relevant phrases**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

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.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

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

*H411 Toxic to aquatic life with long lasting effects.*

*H413 May cause long lasting harmful effects to aquatic life.*

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport 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*

*ELINCS: European List of Notified Chemical Substances*

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

*VOC: Volatile Organic Compounds (USA, EU)*

*DNEL: Derived No-Effect Level (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Gas 1: Flammable gases – Category 1*

*Aerosol 1: Aerosols – Category 1*

*Press. Gas (Comp.): Gases under pressure – Compressed gas*

*Press. Gas (Liq.): Gases under pressure – Liquefied gas*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Flam. Liq. 3: Flammable liquids – Category 3*

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

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Repr. 2: Reproductive toxicity – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*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*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

*Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*

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