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## SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Muc-Off Off-Road Lube · Article number: 20452 · 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) · Product category PC24 Lubricants, greases, release products **Process category** PROC7 Industrial spraying PROC11 Non industrial spraying · Application of the substance / the mixture Lubricant · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Mobacc/Pharmaspray/Eurofill 9640 AH Veendam The Netherlands Tel: +31(0)598 626666 Fax: +31(0)598 625976 E-mail: j.sleumer@mobacc.com · Further information obtainable from: Research & Development/E-mail: j.sleumer@mobacc.com • 1.4 Emergency telephone number: During normal opening hours: Tel: +31(0)598 626666 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS07 GHS02 GHS09 · Signal word Danger (Contd. on page 2)

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	(Contd. of page 1)
Hazard-o	letermining components of labelling:
Pentane	
Distillates	s (petroleum), hydrotreated heavy paraffinic benzene $< 0.1\%$
Hazard s	tatements
H222-H2	29 Extremely flammable aerosol. Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
Precautio	onary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P211	Do not spray on an open flame or other ignition source.
P280	Wear protective gloves / eye protection.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P301+P3	10 IF SWALLOWED: Immediately call a doctor.
P304+P34	40 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331	Do NOT induce vomiting.
P410+P4	12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	al information:
EUH066	Repeated exposure may cause skin dryness or cracking.
2.3 Other	r hazards
<b>Results</b> o	f PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

## · 3.2 Mixtures

\*

• **Description:** Active substance with propellant

· Dangerous components:		
CAS: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30	Pentane Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	25-<50%
CAS: 64742-54-7 EINECS: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic benzene < 0.1% Asp. Tox. 1, H304	10-<25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
-		
8	etergents guidline 648/2004/EC	
aliphatic hydrocarbons		≥ 30%
· Additional information:		GP

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### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- $\cdot$  After inhalation: Supply fresh air; consult doctor in case of complaints.
- $\cdot$  After skin contact: Generally the product does not irritate the skin.
- $\cdot$  After eye contact: Rinse opened eye for several minutes under running water.
- $\cdot$  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:
- Water haze
- Fire-extinguishing powder
- Carbon dioxide
- Alcohol resistant foam
- $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 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.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
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.

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	itions for safe storage, inclu	ding any incompatibilities	
· Storage:	ents to be met by storeroo	ns and recontralies	
	cool location.	ns and receptacies:	
Observe o	fficial regulations on storing	packagings with pressurised containers.	
	ion about storage in one co		
	fficial regulations on storing nformation about storage c	packagings with pressurised containers.	
	ptacle tightly sealed.	onations:	
	al receptacle gas tight.		
	ool, dry conditions in well sea	aled receptacles.	
	om heat and direct sunlight.		
· 7.3 Specif	ic end use(s) No further rele	vant information available.	
SECTIO	ON 8: Exposure contro	ls/personal protection	
	-		
· Additiona	al information about design	of technical facilities: No further data; see item 7.	
	ol parameters		
· Ingredien	ts with limit values that red	quire monitoring at the workplace:	
109-66-0	Pentane		
WEL Lor	ng-term value: 1800 mg/m <sup>3</sup> , 6	500 ppm	
106-97-8	butane (containing < 0.1%	butadiene (203-450-8))	
	ort-term value: 1810 mg/m³, 7		
	ng-term value: 1450 mg/m <sup>3</sup> , 6		
	rc (if more than 0.1% of buta	-1,3-diene)	
74-98-6 p			
	ort-term value: 3600 mg/m <sup>3</sup> , 2		
	ng-term value: 1800 mg/m <sup>3</sup> , 1		
· DNELs			
109-66-0			
Oral	* .	214 mg/kg bw/day (Consumer)	
Dermal	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)	
		432 mg/kg bw/day (Worker)	
Inhalative	DNEL Long term-systemic	643 mg/m3 (Consumer)	
		3000 mg/m3 (Worker)	
A 3 34/4	I informedian. The lists well	id 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.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

· Protection of hands:



Protective gloves

Solvent resistant gloves Wear gloves for the protection against chemicals according to EN 374

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#### Trade name: Muc-Off Off-Road Lube

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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5 \text{ mm}$ 

#### · Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:

Safety glasses



Tightly sealed goggles

· Body protection: Use protective suit. (EN-13034/6)

9.1 Information on basic physical a	nd chemical properties
General Information	r r r r
Appearance:	
Form:	Aerosol
Colour:	Light brown
Odour:	Sweetish
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	-44 °C
Flash point:	-97 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	285 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Explosion limits:	
Lower:	1.4 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C:	8300 hPa
Density at 20 °C:	0.649 g/cm <sup>3</sup>

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· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	73.6 %	
Solids content:	0.4 %	
<ul> <li>9.2 Other information</li> </ul>	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · 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** Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, 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
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard

May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

### · 12.1 Toxicity

#### · Aquatic toxicity:

## 109-66-0 Pentane

NOEC (72h)	7.51 mg/l (Pseudokirchneriella subcapitata)
EC50 (72h)	10.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	10.7 mg/l (Pseudokirchneriella subcapitata) 4.26 mg/l (Oncorhynchus mykiss (96h))

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 $\cdot \, \textbf{ADN}$ 

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EC50/48h 2.7 mg/l (Daphnia magna)	
<b>12.2 Persistence and degradability</b> No	
12.3 Bioaccumulative potential No furt	
<b>12.4 Mobility in soil</b> No further relevant	t information available.
Ecotoxical effects:	
Remark: Toxic for fish	
Additional ecological information: General notes:	
	n) (Self-assessment): extremely hazardous for water
	ater, water course or sewage system, even in small quantities.
Danger to drinking water if even extreme	
Also poisonous for fish and plankton in v	water bodies.
Toxic for aquatic organisms	
12.5 Results of PBT and vPvB assessm	ent
<b>PBT:</b> Not applicable.	
<b>vPvB:</b> Not applicable. <b>12.6 Other adverse effects</b> No further re	alayant information available
SECTION 13: Disposal consider	rations
12 1 Wests theotoment moths de	
13.1 Waste treatment methods	
Vacammandation	
	ehold garbage. Do not allow product to reach sewage system
Must not be disposed together with house	ehold garbage. Do not allow product to reach sewage system.
Must not be disposed together with house Uncleaned packaging:	
Must not be disposed together with house Uncleaned packaging:	
Must not be disposed together with house Uncleaned packaging:	
Must not be disposed together with house Uncleaned packaging:	de according to official regulations.
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number	de according to official regulations.
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number	de according to official regulations.
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number ADR, ADN, IMDG, IATA	de according to official regulations.
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name	de according to official regulations.
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name	ade according to official regulations.  nation UN1950
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inforn 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA 14.3 Transport hazard class(es)	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Uncleaned packaging: Recommendation: Disposal must be ma	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA 14.3 Transport hazard class(es)	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA 14.3 Transport hazard class(es)	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA 14.3 Transport hazard class(es)	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT
Must not be disposed together with house Uncleaned packaging: Recommendation: Disposal must be ma SECTION 14: Transport inform 14.1 UN-Number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN IMDG IATA 14.3 Transport hazard class(es)	de according to official regulations.  nation UN1950 UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES, Zinc naphtenate), MARINE POLLUTANT

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Printing date: 02.11.2015 Version: 2 Reviewed on 01/02/2021 **Trade name: Muc-Off Off-Road Lube** (Contd. of page 7) · IMDG 2.1 · Class 2.1 · Label  $\cdot$  IATA 2.1 · Class 2.1· Label · 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: Product contains environmentally hazardous substances: Pentane · Marine pollutant: Yes Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Gases. · Danger code (Kemler): · EMS Number: F-D,S-U · Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 · Segregation Code litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2. · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · 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 · IMDG · Limited quantities (LO) 1L Code: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity (Contd. on page 9)

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**Trade name: Muc-Off Off-Road Lube** 

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- P3a FLAMMABLE AEROSOLS
- E2 Hazardous to the Aquatic Environment
- · 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:

· Technical instructions (air):

Class Share in %

NK 50-<75

- · VOC-CH 73.59 %
- · VOC-EU 477.6 g/l
- · Danish MAL Code 5-3
- 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.
- H224 Extremely flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing MSDS: Research & Development

· Contact: Ing. J. Sleumer · 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) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) DNEL: Derived No-Effect Level (REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases, Hazard Category 1 Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas C: Gases under pressure: Compressed gas Flam. Liq. 1: Flammable liquids, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 • \* Data compared to the previous version altered. \*