

**CENTRO DISTRIBUZIONE UTENSILI S.p.a**

Revision nr. 3

EN

Dated 13/09/2023

MOS2LUBE A320

Printed on 13/09/2023

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Replaced revision:2 (Dated: 09/08/2019)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **U051650004**
Product name: **MOS2LUBE A320**
UFI: **NF10-J0KN-X00R-WJMW**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: **Lubricant with molybdenum disulphide.**
Uses advised against: **Different uses than those intended.**

1.3. Details of the supplier of the safety data sheet

Name: **CENTRO DISTRIBUZIONE UTENSILI S.p.a**
Full address: **Via delle Gerole, 19**
District and Country: **20867 CAPONAGO (MB)**
ITALY
tel. +39 02 95746081
fax. + 39 02 95745182

e-mail address of the competent person

responsible for the Safety Data Sheet
Supplier:

info@cdu.net
CENTRO DISTRIBUZIONE UTENSILI S.p.a

1.4. Emergency telephone number

For urgent inquiries refer to **CENTRO DISTRIBUZIONE UTENSILI S.p.a +39 02 95746081**
(Technical support - Office hour 8.30-13.00 - 14.00-17.30)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

DANGER



MOS2LUBE A320

Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
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.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents / container to in accordance with local and national regulations.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P211	Do not spray on an open flame or other ignition source.

Contains:	HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE; HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS; ETHYL ACETATE; 1-METHOXY-2-PROPANOL.
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Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	X = Conc. %	Classification (EC) 1272/2008 (CLP)
HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE		
INDEX -	$20 \leq x < 27$	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
EC 931-254-9		
CAS 64742-49-0		
REACH Reg. 01-2119484651-34		
PROPANE		
INDEX 601-003-00-5	$18,5 \leq x < 24,5$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
CAS 74-98-6		
REACH Reg. 01-2119486944-21		
HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS		
INDEX -	$10 \leq x \leq 14$	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
EC 927-510-4		
CAS 64742-49-0		
REACH Reg. 01-2119475515-33		
BUTANE		
INDEX 601-004-00-0	$8 \leq x \leq 11$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 203-448-7		
CAS 106-97-8		
REACH Reg. 01-2119474691-32		

**ISOBUTANE**

INDEX 601-004-00-0

 $3,3 \leq x \leq 5,3$

Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U

EC 200-857-2

CAS 75-28-5

REACH Reg. 01-2119485395-27

ETHYL ACETATE

INDEX 607-022-00-5

 $3 \leq x \leq 5$

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4

CAS 141-78-6

REACH Reg. 01-2119475103-46

MOLYBDENUM DISULPHIDE

INDEX -

 $3,75 \leq x \leq 4,75$ --

EC 215-263-9

CAS 1317-33-5

1-METHOXY-2-PROPANOL

INDEX 603-064-00-3

 $1 \leq x \leq 3$

Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

CAS 107-98-2

REACH Reg. 01-2119457435-35

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants max: 40,70 %

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Headache, dizziness, drowsiness, nausea and other central nervous system effects. Itching, pain, redness, skin swelling. Respiratory difficulties. Numbness, muscle cramps, weakness and paralysis which may occur late.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLIC

Causes irritation. Headache, dizziness, drowsiness, nausea and other central nervous system effects.

ETHYL ACETATE

Eye contact: mild irritation.

Skin contact with long-term exposure/contact: dry skin, cracked skin.

Inhalation with exposure to high concentrations: irritation of the respiratory tract. Irritation of the nasal mucosa. Central nervous system depression. Vertigo.

Headache. Narcosis. Loss of consciousness.

Ingestion: nausea, vomiting. Risk of chemical pneumonia. Central nervous system depression. Symptoms similar to those observed after inhalation.

1-METHOXY-2-PROPANOL

Contact with eyes: May cause temporary eye irritation.

Skin contact: Prolonged skin contact may cause redness and irritation.

Inhalation: Inhalation of vapors may cause drowsiness and dizziness.



Ingestion: May cause discomfort if ingested.

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

Information for the doctor: symptomatically treatment.

SECTION 5. Firefighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products, , carbon oxides, acetic acid vapours, ethanol.

5.3. Advice for firefighters**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

7.3. Specific end use(s)

Lubricant with molybdenum disulphide.

SECTION 8. Exposure controls/personal protection

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8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CYP	Κύπρος	Οι πεπτι Αζθάλειαρ και Υγείαρ ζηην Δπαζία (Φημικοί Παπάγονηερ) (Τποποποιηηικοί) Κανονίζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαξιόγόνοι Παράγοντες) (Τροποποιηηικοί) Κανονισμοί του 2020
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethe a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
LUX	Luxembourg	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérigènes ou mutagènes au travail
LTU	Lietuva	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskaņā ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
MLT	Malta	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier). 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénym a mutagénym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerin Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Direttiva (UE) 2022/431; Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
	TLV-ACGIH	ACGIH 2022

BUTANE

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	AUS	1900	800	3800	1600
TRK	AUS	1600	800	3800	1600

STEL:60(Mow),Häufigkeit/Sch:3x

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VLEP	BEL			2370	980		
TLV	BGR	1900					
MAK	CHE	1900	800	7600	3200		
VME/VLE	CHE	1900	800	7600	3200		
AGW	DEU	2400	1000	9600	4000		
MAK	DEU	2400	1000	9600	4000		
TLV	DNK	1200	500				
VLA	ESP		1000			Gases	
TLV	EST	1500	800				
VLEP	FRA	1900	800				
HTP	FIN	1900	800	2400	1000		
TLV	GRC	2350	1000				
AK	HUN	2350		9400			
GVI/KGVI	HRV	1450	600	1810	750		
OELV	IRL				1000	All Isomers	
RV	LVA	300					
TLV	NOR	600	250				
TGG	NLD	1430					
NDS/NDSch	POL	1900		3000			
MV	SVN	2400	1000	9600	4000		
WEL	GBR	1450	600	1810	750		
WEL	GBR		4			RESP	
TLV-ACGIH					1000		
PROPANE							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	1800	1000	3600	2000	STEL:60(Mow),Häufigkeit/Sch:3x	
TRK	AUS	1800	1000	3600	2000		
VLEP	BEL		1000				
TLV	BGR	1800					
MAK	CHE	1800	1000	7200	4000		
VME/VLE	CHE	1800	1000	7200	4000		
AGW	DEU	1800	1000	7200	4000		
MAK	DEU	1800	1000	7200	4000		
TLV	DNK	1800	1000				
VLA	ESP		1000				
TLV	EST	1800	1000				
HTP	FIN	1500	800	2000	1100		
TLV	GRC	1800	1000				
RV	LVA	1800	100				
TLV	NOR	900	500				



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NDS/NDSch	POL	1800			
TLV	ROU	1400	778	1800	1000
MV	SVN	1800	1000	7200	4000

1-METHOXY-2-PROPANOL

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	187	50	187 (C)	50 (C)	SKIN
TRK	AUS	187	50	187	50	
VLEP	BEL	184	50	369	100	SKIN
TLV	BGR	375	100	568	150	SKIN
MAK	CHE	360	100	720	200	
VME/VLE	CHE	360	100	720	200	
TLV	CYP	375	100	538	150	SKIN
TLV	CZE	270	72,09	550	146,85	SKIN
AGW	DEU	370	100	740	200	
MAK	DEU	370	100	740	200	
TLV	DNK	185	50			SKIN E
VLA	ESP	375	100	568	150	SKIN
TLV	EST	375	100	568	150	SKIN
VLEP	FRA	188	50	375	100	SKIN
HTP	FIN	370	100	560	150	SKIN
TLV	GRC	360	100	1080	300	
AK	HUN	375		568		SKIN
GVI/KGVI	HRV	375	100	568	150	
VLEP	ITA	375	100	568	150	SKIN
OELV	IRL	375	100	568	150	
VL	LUX	375	100	568	150	SKIN
RD	LTU	190	50	300	75	SKIN
RV	LVA	375	100	568	150	SKIN
TLV	MLT	375	100	568	150	SKIN
TLV	NOR	180	50			SKIN
TGG	NLD	375		563		SKIN
VLE	PRT	375	100	568	150	
NDS/NDSch	POL	180		360		SKIN
TLV	ROU	375	100	568	150	SKIN
NGV/KGV	SWE	190	50	568	150	SKIN
NPEL	SVK	375	100	568	150	SKIN
MV	SVN	375	100	568	150	SKIN
ESD	TUR	375	100	568	150	SKIN
WEL	GBR	375	100	560	150	SKIN
OEL	EU	375	100	568	150	SKIN

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TLV-ACGIH

50

100

Predicted no-effect concentration - PNEC

Normal value in fresh water

10

mg/l

Normal value in marine water

1

mg/l

Normal value for fresh water sediment

52,3

mg/kg

Normal value for marine water sediment

5,2

mg/kg

Normal value for water, intermittent release

100

mg/l

Normal value of STP microorganisms

100

mg/l

Normal value for the terrestrial compartment

5,49

mg/l

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure

Acute local

Acute systemic

Chronic local

Chronic systemic

Acute local

Acute systemic

Chronic local

Chronic systemic

Oral

3,3 mg/kg

bw/d

Inhalation

43,9 mg/m3

553,5 mg/m3

369 mg/m3

Skin

18,1 mg/kg

bw/d

50,6 mg/kg

ETHYL ACETATE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
MAK	AUS	734	200	1468 400 Häufigkeit pro Schicht:4x
TRK	AUS	734	200	1460 400
VLEP	BEL	734	200	1468 400
TLV	BGR	734	200	1468 400
MAK	CHE	730	200	1460 400
VME/VLE	CHE	730	200	1460 400
TLV	CYP	734	200	1468 400
TLV	CZE	700	191,1	900 245,7
AGW	DEU	730	200	1460 400
MAK	DEU	750	200	1500 400
TLV	DNK	540	150	E
VLA	ESP	734	200	1468 400
TLV	EST	500	150	1100 300
VLEP	FRA	734	200	1468 400
HTP	FIN	730	200	1470 400
TLV	GRC	734	200	1468 400
AK	HUN	734		1468
GVI/KGVI	HRV	734	200	1468 400
VLEP	ITA	734	200	1468 400
OELV	IRL	734	200	1468 400
VL	LUX	734	200	1468 400
RD	LTU	500	150	1100 (C) 300 (C)
RV	LVA	200	54	1468 400

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TLV	MLT	734	200	1468	400
TLV	NOR	734	200		
TGG	NLD	734		1468	
VLE	PRT	734	200	1468	400
NDS/NDSch	POL	734		1468	
TLV	ROU	734	200	1468	400
NGV/KGV	SWE	550	150	1100	300
NPEL	SVK	734	200	1468	400
MV	SVN	734	200	1468	400
WEL	GBR	734	200	1468	400
OEL	EU	734	200	1468	400
TLV-ACGIH			400		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg/d
Normal value for marine water sediment	0,115	mg/kg/d
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	0,148	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg bw/d				63 mg/kg bw/d

ISOBUTANE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLEP	BEL		2370	980
MAK	CHE	1900	800	
VME/VLE	CHE	1900	800	
AGW	DEU	2400	1000	9600 4000
MAK	DEU	2400	1000	9600 4000
HTP	FIN	1900	800	2400 1000
OELV	IRL			1000
TLV-ACGIH				1000

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
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	mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	1200	353		

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1301 mg/kg bw/d				
Inhalation			VND	1131 mg/m3			VND	5306 mg/m3
Skin			VND	1377 mg/kg bw/d			VND	13964 mg/kg bw/d

MOLYBDENUM DISULPHIDE**Threshold Limit Value**

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		3				

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	2000	500	8000	2000	
VLEP	BEL	1664	400	2085	500	
TLV	BGR	1600				
MAK	CHE	1600	400	1600	400	
VME/VLE	CHE	1600	400	1600	400	
TLV	CYP	2085	500			
TLV	CZE	1000		2000		
MAK	DEU	2100	500	2100	500	
TLV	DNK	820	200			
VLA	ESP	2085	500			
VLEP	FRA	1668	400	2085	500	
TLV	GRC	2000	500	2000	500	
AK	HUN	2000		8000		
GVI/KGVI	HRV	2085	500			
VLEP	ITA	2085	500			
OELV	IRL	2085	500			
VL	LUX	2085	500			
RD	LTU	2085	500	3128	750	
RV	LVA	350	85	2085	500	
TLV	NOR	800	200			
TGG	NLD	1200		1600		
VLE	PRT	2085	500			
NDS/NDSch	POL	1200		2000		
TLV	ROU	2085	500			



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NGV/KGV	SWE	800	200	1200	300
NPEL	SVK	2085	500		
MV	SVN	2085	500		
ESD	TUR	2085	500		
WEL	GBR	2085	500		
OEL	EU	2085	500		
TLV-ACGIH		1639	400	2049	500

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				149 mg/kg				
Inhalation				447 mg/m3				2085 mg/m3
Skin				149 mg/kg				300 mg/kg

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	aerosol	
Colour	grey	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	



Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	Reason for missing data: does not apply to aerosols and gases
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not applicable	Reason for lack given: insoluble in water
Kinematic viscosity	not available	
Solubility	in water: insoluble; in acetone: soluble	Note: Refers to the liquid base of the spray
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,78 - 0,79 kg/dm ³	Note: the density data refers to the liquid base without considering the propellant
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available.

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 89,28 %

Propellant flammability extremely flammable

Limit of propellant flammability 1,8-9,5%

SECTION 10. Stability and reactivity**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

1-METHOXY-2-PROPANOL

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol by the action of light, air and water.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

ETHYL ACETATE

Avoid exposure to: light, moisture, air.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ETHYL ACETATE

May react violently with: strong oxidising agents, acids.

10.4. Conditions to avoid

Avoid overheating.

1-METHOXY-2-PROPANOL

Avoid exposure to: heat (long period), flames, electrostatic charges.

ETHYL ACETATE

Avoid exposure to: heat, naked flames, sparks, sources of ignition, electrostatic charges.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Avoid exposure to: high temperatures, naked flames.



HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS
Avoid exposure to: naked flames, sparks, sources of ignition.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

1-METHOXY-2-PROPANOL

Incompatible with: strong acids, strong alkalis, strong oxidising agents.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Avoid contact with: oxidising agents.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

Incompatible with: oxidising agents.

10.6. Hazardous decomposition products

1-METHOXY-2-PROPANOL

When heated to decomposition releases: toxic gases or vapors, carbon oxides.

ETHYL ACETATE

In decomposition develops: carbon oxides, vapors of acetic acid, ethanol.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

In decomposition develops: carbon oxides.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

May develop: carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Information on likely routes of exposure

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

not classified (no significant component)

ATE (Oral) of the mixture:

not classified (no significant component)

ATE (Dermal) of the mixture:

not classified (no significant component)

1-METHOXY-2-PROPANOL

LD50 (Dermal):

> 2000 mg/kg Rat

LD50 (Oral):

4016 mg/kg Rat

LC50 (Inhalation vapours):

28,8 mg/l Rat



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ETHYL ACETATE

LD50 (Dermal):	> 20000 mg/kg bw Male rabbit
LD50 (Oral):	4934 mg/kg bw Rabbit (OECD 401)
LC50 (Inhalation vapours):	> 22,5 mg/l/6h Rat

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

LD50 (Dermal):	> 3350 mg/kg bw Rabbit (OCDE 402)
LD50 (Oral):	> 16750 mg/kg bw Rat (OCDE 401)
LC50 (Inhalation vapours):	> 259354 mg/m3/4h Rat (OCDE 403)

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

LD50 (Dermal):	2800 mg/kg bw Rabbit (Method: Read across)
LD50 (Oral):	> 8 ml/kg bw Rat (Method: Read across)
LC50 (Inhalation vapours):	> 23,3 mg/l/4h Rat (Method: Read across)

SKIN CORROSION / IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Toxic for aspiration.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

1-METHOXY-2-PROPANOL	
LC50 - for Fish	> 4600 mg/l/96h
EC50 - for Crustacea	23300 mg/l/48h Daphnia magna



ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h Pimephales promelas

EC50 - for Crustacea 165 mg/l/48h Daphnia magna

Chronic NOEC for Crustacea 2,4 mg/l 21d - Daphnia magna

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

EC50 - for Crustacea 31,9 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 13,56 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish 4,09 mg/l 28d - Oncorhynchus mykiss

Chronic NOEC for Crustacea 7,14 mg/l 21d - Daphnia magna

LL50 - Fish 18,27 mg/l/96h Oncorhynchus mykiss

EL50- Algae / Aquatic Plants 16,56 mg/l/48h Pseudokirchneriella subcapitata

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

LC50 - for Fish > 13,4 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea 3 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 10 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

The paraffinic hydrocarbons fraction may be considered biodegradable in water and in air. They distribute mostly in the air. The small non biodegradable amount which spreads into water tends to accumulate in fish.

BUTANE

Rapidly degradable

PROPANE

Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water Miscible

Rapidly degradable 96% - 28d (OECD 301E)

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable 69% - 20d in water

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Solubility in water Insoluble

Rapidly degradable 98% - 28d (OECD 301F)

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

Rapidly degradable

12.3. Bioaccumulative potential

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water -0,49

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 Log Kow 25° C

BCF 30 - 3d - Leuciscus idus

**12.4. Mobility in soil**

Information not available.

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available.

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS

IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1

**14.4. Packing group**

ADR / RID, IMDG, IATA: -

14.5. Environmental hazards

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ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1 L	Tunnel restriction code: (D)
	Special provision: -		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Passengers:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A145, A167, A802	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: P3a-E2.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 40

Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
Not applicable.

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.



German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: severe hazard to waters.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Press. Gas (Liq.)	Liquefied gas
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%

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- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

Classification and procedure used to derive it in accordance with Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Aerosol 1 H222+H229	Calculation method and based on experimental data
Asp. Tox. 1 H304	Calculation method
Skin Irrit. 2 H315	Calculation method
STOT SE 3 H336	Calculation method
Aquatic Chronic 2 H411	Calculation method

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of



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chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.