

**CUT OIL F500**

## Safety data sheet

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

**1.1. Product identifier**Code: U051400004  
Product name: CUT OIL F500**1.2. Relevant identified uses of the substance or mixture and uses advised against**Intended use: **Universal cutting fluid.**  
Uses advised against: Different uses than those intended.**1.3. Details of the supplier of the safety data sheet**Name: **CENTRO DISTRIBUZIONE UTENSILI SCPA**  
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 Product distribution by: **info@cdu.net**  
**Centro Distribuzione Utensili Scpa****1.4. Emergency telephone number**For urgent inquiries refer to: **+39 02 95746081 during office hours 8.30-12.30 - 13.30-17.30**

### 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 EC Regulation 1907/2006 and subsequent amendments. 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 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.

**2.2. Label elements**

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

## Hazard pictograms:



Signal words: DANGER

## Hazard statements:

<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurised container: may burst if heated.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

## Precautionary statements:



## CUT OIL F500

<b>P102</b>	Keep out of reach of children.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P251</b>	Do not pierce or burn, even after use.
<b>P331</b>	Do NOT induce vomiting.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
<b>P501</b>	Dispose of contents / container to in accordance with local and national regulations

**Contains:** HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

"Restricted to professional users"

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 greater than 0,1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	X = Conc. %	Classification 1272/2008 (CLP)
<b>HYDROCARBONS, C3-4</b>		
CAS 68476-40-4	33,6 ≤ x < 38,6	Flam. Gas 1 H220, Press. Gas H280, Note K U
EC 270-681-9		
INDEX 649-199-00-1		
<b>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC</b>		
CAS 64742-65-0	33,5 ≤ x < 38,5	Nota L
EC 265-169-7		
INDEX -		
Reg. no. 01-2119471299-27		
<b>HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS</b>		
CAS -	11,973	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Note H P
EC 919-857-5		
INDEX -		
Reg. no. 01-2119463258-33		
<b>CALCIUM DIHYDROXIDE</b>		
CAS 1305-62-0	0,083	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
EC 215-137-3		
INDEX -		
Reg. no. 01-2119475151-45		

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: 38,60 %

## 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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available.

## 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.

### 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)

Universal cutting fluid.

## SECTION 8. Exposure controls/personal protection

**CUT OIL F500**
**8.1. Control parameters**

## Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Limites de exposición profesional para agentes químicos en España 2015
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskuksen julkaisu 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
NLD	Nederland	Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016

**HYDROCARBONS, C3-4**

Threshold Limit Value Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	2400	1000	9600	4000
MAK	DEU	2400	1000	9600	4000
TLV	DNK	1200	500		
VLA	ESP		800		
HTP	FIN	1900	800	2400	1000
VLEP	FRA	1900	800		
WEL	GBR	1450	600	1810	750
OEL	NLD	1430			
NDS	POL	1900		3000	
TLV-ACGIH			1000		

**DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC**

Threshold Limit Value Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		5		10	INHAL

**HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**
**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers			
					Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	125 mg/kg/d				
Inhalation				185 mg/kg/d				
Skin			VND	125 mg/kg/d			VND	208 mg/kg/d

**CALCIUM DIHYDROXIDE**

Threshold Limit Value Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm



## CUT OIL F500

TLV	DNK	5		
VLA	ESP	5		
HTP	FIN	5		
VLEP	FRA	5		
WEL	GBR	5		
MAC	NLD	5		
NDS	POL	2		
OEL	EU	1	4	RESP
TLV-ACGIH		5		
TLV-ACGIH		1	4	RESP

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,49	mg/l
Normal value in marine water	0,32	mg/l
Normal value for water, intermittent release	0,49	mg/l
Normal value of STP microorganisms	3	mg/l
Normal value for the terrestrial compartment	1080	mg/kg

## 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
Inhalation	4 mg/m3	VND	1 mg/m3	VND	4 mg/m3	VND	1 mg/m3	VND

## 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.

## 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.

### HAND PROTECTION

None required.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC 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.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	Light brown
Odour	Characteristic
Odour threshold	Not available
pH	Not applicable
Melting point / freezing point	Not available
Initial boiling point	< 35 °C
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available

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Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,870 - 0,880 Kg/l
Solubility	In water: insoluble, in acetone: soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
<b>9.2. Other information</b>	
VOC (Directive 2010/75/EC) :	50,57 % - 368,81 g/l
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.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

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

**HYDROCARBONS, C3-4**

May form flammable mixtures with: strong oxidising agents. Forms explosive mixtures with: strong oxidising agents, nitrates.

**CALCIUM DIHYDROXIDE**

Reacts violently developing heat on contact with: acids.

**10.4. Conditions to avoid**

Avoid overheating.

**HYDROCARBONS, C3-4**

Keep away from: strong oxidising agents. Avoid exposure to: sources of heat, naked flames, overheated surfaces, electrostatic discharges.

**DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC**

Avoid exposure to: sources of heat, naked flames, light, ignition sources.

**HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**

Avoid exposure to: heat, naked flames.

**CALCIUM DIHYDROXIDE**

Avoid exposure to: air, moisture.

**10.5. Incompatible materials**

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

**HYDROCARBONS, C3-4**

Avoid contact with : strong oxidising agents.

**DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC**

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

**HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**

Incompatible with: strong acids, strong oxidising agents.

**CALCIUM DIHYDROXIDE**

May react dangerously if exposed to: acids, aluminium, brass.

**10.6. Hazardous decomposition products**

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

When heated to decomposition releases: carbon oxides, toxic fumes.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component)

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component)

LD50 (Oral) of the mixture: Not classified (no significant component)

LD50 (Dermal) of the mixture: Not classified (no significant component)

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

LD50 (Oral) 5000 mg/kg Rat - OCSE 401

LD50 (Dermal) 5000 mg/kg Rat - OECD 402

CALCIUM DIHYDROXIDE

LD50 (Oral) &gt; 2000 mg/kg Rat

LD50 (Dermal) &gt; 2500 mg/kg Rabbit

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

LD50 (Oral) &gt; 5000 mg/kg Rat - OECD 401

LD50 (Dermal) &gt; 5000 mg/kg Rabbit - OCSE 402

LC50 (Inhalation) &gt; 5000 mg/mc Rat - OCSE 403

HYDROCARBONS, C3-4

LC50 (Inhalation) 658 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

Does not meet the classification criteria for this hazard class.

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.

## CUT OIL F500

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Toxic for aspiration.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS  
LC50 - for Fish > 1000 mg/l/96h Onchorhynchus mykiss - OECD 203  
EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna - OECD 202  
EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Scenedesmus subspicatus - OECD 202

## CALCIUM DIHYDROXIDE

LC50 - for Fish 457 mg/l/96h Gasterosteus aculeatus  
EC50 - for Crustacea 158 mg/l/48h Crangon septemspinosa  
EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h Pseudokirchneriella subcapitata

## HYDROCARBONS, C3-4

LC50 - for Fish 24,11 mg/l/96h Fish (QSAR calculation - butan - ECOSAR Program v1.00)  
EC50 - for Crustacea 16,33 mg/l/48h Daphnia (isobutan, calculated with ECOSAR Program v1.00. EPI SuiteTM v4.00)

**12.2. Persistence and degradability**

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

Solubility in water Insoluble

Rapidly biodegradable

## CALCIUM DIHYDROXIDE

Solubility in water 1184 mg/l

## DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

Solubility in water Trascurable

## HYDROCARBONS, C3-4

Solubility in water 24,4 - 60,4 mg/l

Rapidly biodegradable

**12.3. Bioaccumulative potential**

## HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS

Partition coefficient: n-octanol/water

5



**CUT OIL F500**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC  
Partition coefficient: n-octanol/water > 3,5

HYDROCARBONS, C3-4  
Partition coefficient: n-octanol/water 2,03058 Log Kow (QSAR, KOWWIN, Butano)

**12.4. Mobility in soil**

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS  
Partition coefficient: soil/water 1,78

**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 greater than 0,1%.

**12.6. 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**

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

ADR / RID: NO  
IMDG: NO  
IATA: NO

#### 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: 100 Kg	Packaging instructions: 130
	Pass.:	Maximum quantity: 25 Kg	Packaging instructions: 130
	Special Instructions:	A802	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC: P3a

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

Product  
Point 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 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 (VwVwS 2005)

WGK 3: Severe hazard to waters



## 15.2. Chemical safety assessment

No chemical safety assessment for the mixture was carried out.

## SECTION 16. Other information

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

<b>Flam. Gas 1</b>	Flammable gas, category 1
<b>Aerosol 1</b>	Aerosol, category 1
<b>Aerosol 3</b>	Aerosol, category 3
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Press. Gas</b>	Pressurised gas
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>H220</b>	Extremely flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurised container: may burst if heated.
<b>H226</b>	Flammable liquid and vapour.
<b>H280</b>	Contains gas under pressure; may burst if heated.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- 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: EC Regulation 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 STEL: Short-term exposure limit



- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**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.

**Changes to previous review:**

The following sections were modified:

01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15.