# **SAFETY DATA SHEET**

X1 eXcellent Cutting - Tapping spray

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

## **1.1 Product identifier**

RUST-OLEUM

Product name

: X1 eXcellent Cutting - Tapping spray

Product description Product type : Aerosol. Metal lubricant.

## : Aerosol.

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

Identified uses Industrial uses Consumer uses Professional uses		
None identified.	-	

## 1.3 Details of the supplier of the safety data sheet

Rust-Oleum Europe - Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

e-mail address of person : rpmeurohas@ro-m.com responsible for this SDS

## 1.4 Emergency telephone number

<u>Supplier</u>	
Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition

: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

## **SECTION 2: Hazards identification**

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. Causes skin irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	:	P102 - Keep out of reach of children. P103 - Read label before use. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	<ul> <li>P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P251 - Do not pierce or burn, even after use.</li> <li>P280 - Wear protective gloves and eye protection:</li> <li>- neoprene gloves and Safety glasses with side shields.</li> <li>P273 - Avoid release to the environment.</li> </ul>
Response	:	<ul> <li>P302 - IF ON SKIN:</li> <li>P352 - Wash with plenty of soap and water.</li> <li>P305 - IF IN EYES:</li> <li>P351 - Rinse cautiously with water for several minutes.</li> <li>P338 - Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 - If eye irritation persists:</li> <li>P313 - Get medical attention.</li> </ul>
Storage	:	P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
Disposal	;	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Not applicable.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	ien	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures	: Mixture			
Product/ingredient	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
name				
liquefied petroleum gas	REACH #: Annex V EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6	≥50 - ≤75	Flam. Gas 1, H220	[2]
hydrocarbons, isoalkanes, C7-C10	REACH #: 01-2119471305-42 EC: 292-458-5 CAS: 90622-56-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso- Bu and iso-Pr) esters, zinc salts	EC: 288-917-4 CAS: 85940-28-9	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed		
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	е
Specific treatments	No specific treatment.	

### See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture

Hazards from the substance or mixture
 Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## **SECTION 5: Firefighting measures**

•	-
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	: Pressurised container: May burst if heated. Bursting aerosol containers may be propelled from a fire at high speed. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.

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

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## 6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	<ul> <li>Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection</li> <li>Vapours are heavier than air and may spread along floors. Vapours may form</li> </ul>
	explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and wellventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## Danger criteria

	Notification and MAPP threshold	Safety report threshold
РЗа	150	500

## 7.3 Specific end use(s)

**Recommendations** 

: Not available.

Industrial sector specific solutions

: Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

## **Occupational exposure limits**

Product/ingredient name	Exposure limit valuesEH40/2005 WELs (United Kingdom (UK), 12/2011).STEL: 2180 mg/m³ 15 minutes.STEL: 1250 ppm 15 minutes.TWA: 1750 mg/m³ 8 hours.TWA: 1000 ppm 8 hours.	
liquefied petroleum gas		
procedures atmosphere of the ventilat protective equ	contains ingredients with exposure limits, personal, workplace r biological monitoring may be required to determine the effectiveness ion or other control measures and/or the necessity to use respiratory ipment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for	

protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
hydrocarbons, isoalkanes, C7-C10	DNEL	Long term Dermal	773 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2035 mg/ m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	699 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	608 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	699 mg/kg bw/day	Consumers	Systemic

### **PNECs**

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields (EN 166).
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## **SECTION 8: Exposure controls/personal protection**

## **Skin protection**

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves	prolonged or repeate	ed handling, use the following type of gloves:
	commended: > 8 hou	rs (breakthrough time): neoprene (0.65mm)
		the type or types of glove to use when handling this mation from the following source:
	374-3 : 2003	
	duct is the most appr	at the final choice of type of glove selected for handling this opriate and takes into account the particular conditions of ser's risk assessment.
Body protection	ng performed and the ore handling this proc ar anti-static protectiv charges, clothing sho opean Standard EN	pment for the body should be selected based on the task risks involved and should be approved by a specialist luct. When there is a risk of ignition from static electricity, e clothing. For the greatest protection from static uld include anti-static overalls, boots and gloves. Refer to 1149 for further information on material and design ethods. Recommended: Wear overalls or long sleeved
Other skin protection	ected based on the ta	d any additional skin protection measures should be sk being performed and the risks involved and should be before handling this product.
Respiratory protection	propriate standard or piratory protection pro	d potential for exposure, select a respirator that meets the certification. Respirators must be used according to a ogram to ensure proper fitting, training, and other important nended: organic vapour (Type A) and particulate filter (EN
Environmental exposure controls	y comply with the req es, fume scrubbers, i	on or work process equipment should be checked to ensure uirements of environmental protection legislation. In some filters or engineering modifications to the process sary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physic	al and chem	nical properties			
<u>Appearance</u>					
Physical state	: Liquid.	[Compressed gas]			
Colour	: Colourle	ess.			
Odour	: Charact	teristic.			
Odour threshold	: Not ava	ilable.			
pH	: Not ava	ilable.			
Melting point/freezing point	: Not ava	ilable.			
Initial boiling point and boiling range	: Not ava	ilable.			
Flash point	: Closed	cup: -70°C			
Evaporation rate	: >1 (buty	/l acetate = 1)			
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## **SECTION 9: Physical and chemical properties**

Flammability (solid, gas)	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
	Slightly flammable in the presence of the following materials or conditions:
	shocks and mechanical impacts. Container explosion may occur under fire conditions or when heated. Vapour may travel a considerable distance to source of ignition and flash back.
Upper/lower flammability or explosive limits	: Lower: 3% Upper: 18%
Vapour pressure	: >400 kPa [room temperature]
Vapour density	: >1 [Air = 1]
Relative density	: 0,64 to 0,65
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: 405°C
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
Oxidising properties	: Not available.
9.2 Other information	
Type of aerosol	: Spray
No additional information.	

### **10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients. **10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7). 10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. **10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. **10.6 Hazardous** : Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and decomposition products smoke can be generated.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, isoalkanes, C7-C10	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg >5000 mg/kg	-
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## **SECTION 11: Toxicological information**

## Conclusion/Summary

: Based on available data, the classification criteria are not met.

## Acute toxicity estimates

Not available.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrocarbons, isoalkanes, C7-C10	Skin - Erythema/Eschar	Rabbit	1	-	-
	Eyes - Redness of the conjunctivae	Rabbit	1	-	-

Conclusion/Summary	
Skin	: Causes skin irritation.

- SKIII
- Eyes Respiratory

: Causes serious eye irritation.

: Based on available data, the classification criteria are not met.

## Sensitisation

Product/ingredient name	Route of exposure	Species	Result
hydrocarbons, isoalkanes, C7-C10	Respiratory	Rat	Not sensitizing

## Conclusion/Summary

Skin

: Based on available data, the classification criteria are not met.

Respiratory

: Based on available data, the classification criteria are not met.

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
hydrocarbons, isoalkanes, C7-C10	OECD 471	Subject: Bacteria	Negative

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### **Carcinogenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, isoalkanes, C7-C10	Negative	Negative	Negative	Rat	Oral	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### **Teratogenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, isoalkanes, C7-C10	Category 3	Not applicable.	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Product/ingredient name	Result
hydrocarbons, isoalkanes, C7-C10	ASPIRATION HAZARD - Category 1
Delayed and immediate effects as well as chronic effects from	short and long-term exposure

## **SECTION 11: Toxicological information**

Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>&gt;</u>	
Not available.		
Conclusion/Summary	Based on available data, the classification criteria are not met.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, crackin or dermatitis.	g and/
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	No known significant effects or critical hazards.	
<b>Developmental effects</b>	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	
Other information	Not available.	

## **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
hydrocarbons, isoalkanes, C7-C10	Acute EC50 29 mg/l	Algae - pseudokirchneriella subcapitata	72 hours
	Acute EC50 2,4 mg/l	Daphnia spec.	48 hours
	Acute LC50 18,4 mg/l	Fish	96 hours
	Acute NOEC 6,3 mg/l	Algae - pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0,17 mg/l	Daphnia spec.	21 days

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
hydrocarbons, isoalkanes, C7-C10	-	22 % - 28 days		-	-
<b>Conclusion/Summary</b> : Based on available data, the classification criteria are not met.					
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
hydrocarbons, isoalkanes, C7-C10	-		-		Inherent

### **12.3 Bioaccumulative potential**

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SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
hydrocarbons, isoalkanes, C7-C10	4.3 to 5.1	935 to 1933	high

2.4	Mo	bili	ty i	n	soi	
	2.4	2.4 Mo	2.4 Mobili	2.4 Mobility i	2.4 Mobility in	2.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: This product is likely to volatilise rapidly into the air because of its high vapour pressure.

12.5 Results of PBT	and vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

## 13.1 Waste treatment methods

Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

## European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
13 02 08*	other engine, gear and lubricating oils
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Limited quantity: LQ2 Remarks: (≤ 1L: ) Limited Quantity - ADR/IMDG 3.4 ADR Tunnel code: (D)		Emergency schedules (EmS): F-D + S-U Remarks: Limited Quantity - ADR/IMDG 3.4	Passenger and Cargo AircraftQuantity limitation: 75 kgPackaging instructions: 203Cargo Aircraft Only Quantity limitation: 150 kgPackaging instructions: 203Limited Quantities -
				Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y 203

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Date of issue/Date of revision

## **SECTION 15: Regulatory information**

0_0	
Other EU regulations	
VOC for Ready-for-Use Mixture	: Not applicable.
Europe inventory	: All components are listed or exempted.
Ozone depleting substan	<u>ces (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent ( Not listed.	<u>PIC) (649/2012/EU)</u>
Aerosol dispensers	:
	3
	Extremely flammable
Seveso Directive	
This product is controlled u	nder the Seveso Directive

This product is controlled under the Seveso Directive.

## Danger criteria

Category
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P3a

## National regulations

## Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

Product/ingredient name	List name	Name on list	Classification	Notes
liquefied petroleum gas		liquefied petroleum gas; LPG	Carc.	-
References	EH40/2005 Workplace Conforms to Regulation	exposure limits ı (EC) No. 1907/2006 (R	REACH), Annex II, a	as amended by

Regulation (EU) No. 2016/918

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**CN code** : 3403 99 10

## **SECTION 15: Regulatory information**

UFI Code : 9EM0-H0HR-N007-AESE
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## International lists

National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Turkey	: Not determined.
United States	: Not determined.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

#### assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

	0 1 3
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
Aquatic Chronic 3, H412	Expert judgment

### Full text of H-phrases referred to in sections 2 and 3

Highly hammable liquid and vapour.H304May be fatal if swallowed and enters airways.H315Causes skin irritation.H318Causes serious eye damage.H319Causes serious eye irritation.H336May cause drowsiness or dizziness.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	Full text of abbreviated H : statements	H315 H318 H319 H336 H411	Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.	
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## **SECTION 16: Other information**

Full text of classifications [CLP/GHS]	<ul> <li>Aerosol 1, H222, H229 Aquatic Chronic 2, H411</li> <li>Aquatic Chronic 3, H412</li> <li>Aquatic Chronic 3, H412</li> <li>Aquatic Chronic 3, H412</li> <li>Asp. Tox. 1, H304</li> <li>Eye Dam. 1, H318</li> <li>Eye Irrit. 2, H319</li> <li>AEROSOLS - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2</li> <li>ARDONIC AQUATIC HAZARD - Category 3</li> <li>ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</li> </ul>
	Flam. Gas 1, H220FLAMMABLE GASES - Category 1Flam. Liq. 2, H225FLAMMABLE LIQUIDS - Category 2Skin Irrit. 2, H315SKIN CORROSION/IRRITATION - Category 2STOT SE 3, H336SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE (Narcotic effects) - Category 3
Date of printing	9/04/2018
Date of issue/ Date of revision	9/04/2018
Date of previous issue	9/04/2018
Version	: 3

## Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.