



**Kemetyl**

# Safety data sheet

According to Regulation (EU) No 2015/830

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name : SHELL CHAIN LUBE  
Product code : CRX811, 09727094

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

Application : SU21 Consumer product. PC24 Lubricants, greases and release products.

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

Supplier : Kemetyl Nederland BV  
Industrieweg 30  
3762 EK Soest, The Netherlands  
Telephone : +31-35 7604900  
E-mail : msds@kemetyl.com  
Website : www.kemetyl.com

### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-35-6099310

(During office hours only)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP classification : Aerosols, category 1. Skin irritation, category 2. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 2.  
(1272/2008/EC)  
Human health hazards : Causes skin irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Physical/chemical hazards : Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.  
Environmental hazards : Toxic to aquatic life with long lasting effects.  
Other information : Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H222 Extremely flammable aerosol.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.



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H229	Pressurised container: May burst if heated.
H411	Toxic to aquatic life with long lasting effects.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P391	Collect spillage.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Danger

H- and P-phrases	:	H222	Extremely flammable aerosol.
		H336	May cause drowsiness or dizziness.
		H229	Pressurised container: May burst if heated.
		P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P211	Do not spray on an open flame or other ignition source.
		P251	Do not pierce or burn, even after use.
		P271	Use only outdoors or in a well-ventilated area.
		P405	Store locked up.
		P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
		P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Pentane ; Hydrocarbons, C6, iso-alkanes, < 5% n-hexane .

### 2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Butane	25 - < 50	106-97-8	203-448-7		01-2119474691-32
Pentane	10 - < 25	109-66-0	203-692-4		01-2119459286-30

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Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	10 - < 25	-----	931-254-9		01-2119484651-34
Propane	2,5 - < 10	74-98-6	200-827-9		01-2119486944-21
Isobutane	2,5 - < 10	75-28-5	200-857-2		01-2119485395-27
Amines, coco alkyl	0,0025 - < 0,025	61788-46-3	262-977-1		01-2119473798-17

Substance name	Hazard Class	H-phrases	Pictograms	
Butane	Flam. Gas 1; Press. Gas	H220; H280	GHS02; GHS04	
Pentane	Aquatic Chronic 2; Asp. Tox. 1; Flam. Liq. 2; STOT SE 3	H225; H304; H336; H411; EUH066	GHS02; GHS07; GHS08; GHS09	
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	Aquatic Chronic 2; Asp. Tox. 1; Flam. Liq. 2; STOT SE 3; Skin Irrit. 2	H225; H304; H315; H336; H411	GHS02; GHS07; GHS08; GHS09	
Propane	Flam. Gas 1; Press. Gas	H220; H280	GHS02; GHS04	
Isobutane	Flam. Gas 1; Press. Gas	H220; H280	GHS02; GHS04	
Amines, coco alkyl	Acute Tox. 4; Asp. Tox. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; STOT SE 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H304; H314; H317; H318; H335; H373; H400; H410	GHS05; GHS07; GHS08; GHS09	M (acute) = 10 M (chronic) = 10

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

## SECTION 4 FIRST-AID MEASURES

### 4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

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

Effects and symptoms

- Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.
- Skin contact : Irritant. May cause redness. Repeated exposure may cause skin dryness or cracking.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

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

Note to physicians : None known.

## SECTION 5 FIRE-FIGHTING MEASURES

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## 5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.  
Not suitable : Water jet.

## 5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.
- Hazardous thermal decomposition products : Hydrogen fluoride . Fluorine . Carbon monoxide may be evolved if incomplete combustion occurs.

## 5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in case of insufficient ventilation.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

### 6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Waste product should not be allowed to contaminate soil or water.
- Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water and soap.

### 6.4. Reference to other sections

- Reference to other sections : See also section 8.

## SECTION 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

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



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Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.  
Recommended packaging : Not applicable.

### 7.3. Specific end use(s)

Use : Use only as directed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
Butane	GB	1450	1810		MAC: MSDS Aeron Butane
Butane		1450	1810		
Pentane	GB	1800			Directive 2006/15/EG
Pentane	EC	3000			
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane		1200		Recommended	
Propane		1800			MAC: BG, PL, CH, SL, etc
Isobutane		1900	2400		MAC: FI, BE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Pentane	Dermal				432 mg/kg bw/day
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	Inhalation				3000 mg/m <sup>3</sup>
	Dermal				13964 mg/kg bw/day
	Inhalation				5306 mg/m <sup>3</sup>

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Pentane	Dermal				214 mg/kg bw/day
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	Inhalation				643 mg/m <sup>3</sup>
	Oral				214 mg/kg bw/day
	Dermal				1377 mg/kg bw/day
	Inhalation				1131 mg/m <sup>3</sup>
	Oral				1301 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Pentane	Water	0,23 mg/l	0,23 mg/l	
	Sediment	1,2 mg/kg	1,2 mg/kg	
	Intermittent water			0,88 mg/l

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	STP Soil			3,6 mg/l 0,55 mg/kg
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## 8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Use of specific protective industrial clothing is not required for momentary use. Wear suitable protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345 in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	: Aerosol.	
Colour	: Colourless.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: Not applicable.	Waterfree product.
Solubility in water	:	Active ingredients not soluble. Propellant(s) not soluble.
Partition coefficient (n-octanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: Not applicable.	Not measurable.
Flammability (solid, gas)	: Extremely flammable.	Contains > 85% flammable components and has a heat of combustion > 30 kJ/g.
Auto ignition temperature	: Not applicable.	Aerosol container explodes before reaching the auto-ignition point.
Boiling point/boiling range	: Not known.	Not measurable.
Melting point/melting range	: < -20 °C	
Explosive properties	:	Pressurised container: May burst if heated.
Explosion limits (% in air)	: 1,1 - 10,9	
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	Aerosol explodes before reaching the decomposition temperature.
Viscosity (20°C)	: Not known.	Not measurable.
Viscosity (40°C)	: Not known.	Not measurable.
Vapour pressure (20°C)	: 210000 Pa	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: 0,7 g/ml	
Evaporation rate	: Not known.	Not relevant. Mixture of gases, liquids and solids.



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## 9.2. Other information

Other information : Not relevant.

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity : See sub-sections below.

### 10.2. Chemical stability

Stability : Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

### 10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.

### 10.5. Incompatible materials

Materials to avoid : Not applicable.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

#### Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

#### Skin contact

- Acute toxicity : Calculated LD50: no data mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.



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Mutagenicity	: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Eye contact	
Corrosion/irritation	: Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
Ingestion	
Acute toxicity	: Aerosol or mist: Ingestion is unlikely to occur. Calculated LD50: > 1177 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Aspiration	: Aerosol or mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation	: Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
Carcinogenicity	: Aerosol or mist: Ingestion is unlikely to occur. Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Aerosol or mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Reprotoxicity	: Aerosol or mist: Ingestion is unlikely to occur. Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

## Toxicological information:

Chemical name	Property		Method	Test animal	
Pentane	Skin irritation	Mildly irritant	OECD 404	Rabbit	
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig	
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 414	Rat	
	LC50 (inhalation)	> 20000 mg/m3		Rat	
	Eye irritation	Slightly irritant	-----	Rabbit	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	LD50 (oral)	> 2000 mg/kg bw	-----	Rat	
	NOAEL (inhalation)	> 20000 mg/m3	OECD 413	Rat	
	NOAEL (fertility, inh.)	24080 mg/m3	-----	Rat	
	Skin irritation	Non-irritant	-----	Human	
	Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	LD50 (oral) - estimate	> 16750 mg/kg bw	Read across	Rat
		LC50 (inhalation) - estimate	> 5000 mg/m3	Read across	Rat
LD50 (dermal) - estimate		> 3350 mg/kg bw		Rabbit	
Skin irritation		Non-irritant	OECD 404	Rabbit	
Eye irritation - estimate		Non-irritant	Read across	Rabbit	
Skin sensitisation - estimate		Not sensitizing	Read across	Mouse	
Mutagenicity - estimate		Negative	Read across	Salmonella typhimurium	
NOEL (carcinogenicity, inh.)		31736 mg/m3	OECD 451	Rat	
NOAEL (fertility, inh.)		31680 mg/m3	OECD 416	Rat	
NOAEL (development) - estimate		Not teratogenic	Read across	Rat	

## SECTION 12 ECOLOGICAL INFORMATION





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## 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 19 mg/l. Calculated EC50 (waterflea): 12 mg/l.  
Contains 0 % of components with unknown hazards to the aquatic environment.

## 12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

## 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

## 12.4. Mobility in soil

Mobility : Not applicable.

## 12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

## 12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Pentane	Ultimate aerobic biodegradation (%)	87 %	OECD 301 F	
	IC50 (alga)	10,7 mg/l	OECD 201	Selenastrum capricornutum
	EC50 (waterflea)	2,7 mg/l	-----	Daphnia magna
	LC50 (fish)	4,26 mg/l	OECD 203	Oncorhynchus mykiss
Pentane	Log P(ow)	3,45		
Pentane	BCF	171		
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	EC50 (waterflea) - estimate	31,9 mg/l	-----	Daphnia magna
	LC50 (fish) - estimate	18,27 mg/l	-----	Oncorhynchus mykiss
Hydrocarbons, C6, iso-alkanes, < 5% n-hexane	Ultimate aerobic biodegradation (%)	81 %	Read across	
	Log P(ow)	3,6		

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.



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Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14 TRANSPORT INFORMATION

### 14.1. UN number

UN nr. : UN 1950

### 14.2. UN proper shipping name

Transport name : AEROSOLS  
Transport name (IMDG, IATA) : AEROSOLS

### 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 2  
Classification code : 5F  
Packaging group : -  
Danger label : 2,1 + the "environmentally hazardous substance" mark.  
Tunnel restriction code : D



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IMDG (sea)

Class : 2,1  
Packaging group : -  
EmS (fire / spill) : F - D / S - U  
Marine pollutant : Yes  
Other information : Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IATA (air)

Class : 2,1

### 14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

## SECTION 15 REGULATORY INFORMATION



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

- Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
- : This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.1.6.3. of Annex I of Regulation (EC) No 1272/2008.
- : In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

## 15.2. Chemical safety assessment

- Chemical safety assessment : Not applicable.

## SECTION 16 OTHER INFORMATION

### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative



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According to Regulation (EU) No 2015/830

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Aer. 1 : Expert judgement.  
Skin Irrit. 2 : Calculation method.  
STOT SE 3 : Calculation method.  
Aquatic Chronic 2 : Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Gas 1 : Flammable gas, category 1.  
Flam. Liq. 2 : Flammable liquid, category 2.  
Skin Corr. 1A/B/C : Skin corrosive, category 1A/B/C.  
Skin Irrit. 2 : Skin irritation, category 2.  
Eye Dam. 1 : Serious eye damage, category 1.  
Press. Gas : Gases under pressure.  
STOT SE 3 : Specific target organ toxicity after single exposure, category 3.  
Asp. Tox. 1 : Aspiration hazard, category 1.  
Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.  
Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.  
Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H280 : Contains gas under pressure; may explode if heated.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H336 : May cause drowsiness or dizziness.  
H411 : Toxic to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.

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End of safety data sheet.

Print date : 2020-03-11