SAFETY DATA SHEET

PTFE DRY FILM LUBRICANT R237

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

1.1. Product identifier

Product form	: Mixture
Product name	: R-237 PTFE DRY FILM LUBE
UFI	: H9H4-U59D-U00D-SKT4
Product code	: 002777057601
Type of product	: Lubricating agent
Vaporizer	: Aerosol
Product group	: End product

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

Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use,Professional use,Consumer use : Lubricant

1.3. Details of the supplier of the safety data sheet

TYGRIS LTD UNIT 31 KYLE ROAD INDUSTRIAL ESTATE IRVINE SCOTLAND T 01294 311066 Jon.Butcher@tygrisindustrial.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	[CLP]
Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. Toxic to aquatic life with long lasting effects.





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2.2. Label elements

Labelling according to Regulation (EC) No. 127	72/2008 [CLP]
Hazard pictograms (CLP)	HS02 GHS07 GHS09
Signal word (CLP)	: Danger
Contains	: Propan-2-ol; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Hazard statements (CLP)	: H222 - Extremely flammable aerosol.
	H229 - Pressurised container: May burst if heated.
	H315 - Causes skin irritation.
	H336 - May cause drowsiness or dizziness.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: 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.
	P261 - Avoid breathing vapours, spray.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves.
	P264 - Wash hands thoroughly after handling. P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P32+P313 - Il skin initiation occurs. Get medical advice/attention. P312 - Call a POISON CENTER, doctor if you feel unwell.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122
	°F.
	P501 - Dispose of contents/ container in accordance with local regulations.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied (Contains < 0.1% 1,3- butadiene) substance with national workplace exposure limit(s) (BE, CZ, GB, GR, HR, TR) (Note K)	CAS-No.: 68476-85-7 EC-No.: 270-704-2 EC Index-No.: 649-202-00-6	≥ 50	Flam. Gas 1A, H220 Press. Gas
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC-No.: 921-024-6 REACH-no: 01-2119475514- 35	25 – 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propan-2-ol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, MK, CH, TR)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-hexane substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0 REACH-no: 01-2119480412- 44	0.5 – 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
n-hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0 REACH-no: 01-2119480412- 44	(5 ≤ C ≤ 100) STOT RE 2; H373

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	3
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Ge medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: None under normal conditions.

Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.



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SECTIO	oficialities	g measures
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Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	equipment and emergency procedures	
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.	
For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.	
6.2. Environmental precautions		

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.	
Methods for cleaning up	: Mechanically recover the product.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage)
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	 Not expected to present a significant hazard under anticipated conditions of normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



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	7.2. Conditions for	safe storage, including	any incompatibilities
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Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked
	up. Store in a well-ventilated place. Keep container tightly closed.
Packaging materials	: Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Propan-2-ol (67-63-0)		
Ireland - Occupational Exposure Limits		
Local name	Isopropyl alcohol [Propan-2-ol]	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)	
Regulatory reference	Chemical Agents Code of Practice 2024	
Ireland - Biological limit values		
Local name	2-Propanol	
BMGV	40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
n-hexane (110-54-3)		
EU - Indicative Occupational Exposure Limit (IOE	L)	
Local name	n-Hexane	
IOEL TWA	72 mg/m ³	
	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	n-Hexane	
OEL TWA	72 mg/m³	
	20 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)	
Regulatory reference	Chemical Agents Code of Practice 2024	
Ireland - Biological limit values		
Local name	Hexane	



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n-hexane (110-54-3)	
BMGV	0.4 mg/l Parameter: 2,5-Hexanedion - Medium: urine - Sampling time: End of shift at end of workweek
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.



Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses			EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
protective clothing	EN ISO 6530

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves					EN 374-2

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white.
Appearance	: Aerosol.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: -40 – -2 °C (LPG)
Flammability	: Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.
Lower explosion limit	: 1.4 vol % (LPG)
Upper explosion limit	: 10.9 vol % (LPG)
Flash point	: < -40 °C
Auto-ignition temperature	: 365 °C (LPG)
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: < 20.5 mm²/s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 590 – 1760 kPa (LPG)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Information with regard to physical hazard classes % of flammable ingredients : 99.586546 % Other safety characteristics

Volatility

: Volatile

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Extremely flammable aerosol. Pressurised container: May burst if heated.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified	
Propan-2-ol (67-63-0)		
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 oral	4396 mg/kg bodyweight	
LD50 dermal rabbit	12800 mg/kg Source: ECHA	
LD50 dermal	12800 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l	
n-hexane (110-54-3)		
LD50 oral rat	24 ml/kg Source: ECHA	
LD50 oral	> 16000 mg/kg bodyweight	
LD50 dermal rabbit	> 3350 mg/kg Source: ECHA	
LD50 dermal	> 2000 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	> 17600 mg/l	
LC50 Inhalation - Rat (Vapours)	259.354 mg/l Source: ECHA	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane	
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat, Remarks on results: other:	
LC50 Inhalation - Rat	> 25.2 mg/l air Animal: rat	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Not classified Not classified	
Respiratory or skin sensitisation : Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Propan-2-ol (67-63-0)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure : Propan-2-ol (67-63-0)	May cause drowsiness or dizziness.	
STOT-single exposure	May cause drowsiness or dizziness.	
n-hexane (110-54-3)		
STOT-single exposure	May cause drowsiness or dizziness.	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5% n-hexane	
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
n-hexane (110-54-3)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	





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Petroleum gases, liquefied (Contains < 0.1% 1	Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)		
LOAEC (inhalation, rat, gas, 90 days)	12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:		
Aspiration hazard :	Not classified		
R-237 PTFE DRY FILM LUBE			
Vaporizer	Aerosol		
Viscosity, kinematic	< 20.5 mm²/s		
Not able to form a pool	Yes		
Propan-2-ol (67-63-0)			
Viscosity, kinematic 2.658 mm ² /s			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
Viscosity, kinematic	0.7 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'		

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects. Not classified			
Toxic to aquatic life with long lasting effects.			
9640 mg/l			
9640 mg/l Test organisms (species): Pimephales promelas			
1000 mg/l			
13299 mg/l waterflea			
> 1000 mg/l			
1000 mg/l			
100 mg/l			
2.5 mg/l			
3.88 mg/l			
50 mg/l waterflea			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)			
0.362 mg/l			



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Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7) ErC50 algae 7.6 mg/l Source: ECOTOX 12.2. Persistence and degradability **R-237 PTFE DRY FILM LUBE** Persistence and degradability Not rapidly degradable Propan-2-ol (67-63-0) Persistence and degradability Rapidly degradable Biodegradation 95 % n-hexane (110-54-3) Persistence and degradability Not rapidly degradable Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Persistence and degradability Not rapidly degradable Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential Propan-2-ol (67-63-0) Partition coefficient n-octanol/water (Log Pow) 0.05 n-hexane (110-54-3) Partition coefficient n-octanol/water (Log Pow) 3.9 Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7) Partition coefficient n-octanol/water (Log Pow) ≤ 2.8 Source: IUCLID 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Endocrine disrupting properties No additional information available 12.7. Other adverse effects No additional information available **SECTION 13: Disposal considerations** 13.1 Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.



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HP Code

: HP3 - "Flammable:"

– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and \leq 75 °C;

- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;

- flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;

 flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;

- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber		1	
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shippin	g name			-
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Fransport document descr	iption		1	
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1 ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)		•	
2.1	2.1	2.1	2.1	2.1
14.4. Packing group	11		1	I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards		1	
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes

No supplementary information available



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14.6. Special precautions for user

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Overland transport	
Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading	: CV9, CV12
and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D
The second because	
Transport by sea	
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L
Inland waterway transport	
Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Rail transport	
Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2 : W14
Special provisions for carriage – Packages (RID)	
Special provisions for carriage - Loading, unloading	: CW9, CW12
and handling (RID)	· CE2
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23





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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:			
ACGIH	American Conference of Government Industrial Hygienists		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
CAS-No.	Chemical Abstract Service number		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
COD	Chemical oxygen demand (COD)		
CSA	Chemical safety assessment		



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SAFETY DATA SHEET

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Abbreviations and acronyms:			
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
ED	Endocrine disruptor		
EN	European Standard		
EWC	European waste catalogue		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
Log Kow	Partition coefficient n-octanol/water (Log Kow)		
Log Pow	Partition coefficient n-octanol/water (Log Pow)		
МАК	maximum workplace concentration		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
N.O.S.	Not Otherwise Specified		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
OSHA	Occupational Safety Health Administration		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
PPE	Personal protection equipment		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
TF	Technical function		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
TWA	Time Weighted Average		
VOC	Volatile Organic Compounds		
vPvB	Very Persistent and Very Bioaccumulative		
UFI	Unique Formula Identifier		

Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2	Full text of H- and EUH-statements:		



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Full text of H- and EUH-statements:			
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Gas 1A	Flammable gases, Category 1A		
Flam. Liq. 2	Flammable liquids, Category 2		
Press. Gas	Gases under pressure		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		
H220	Extremely flammable gas.		
H222	Extremely flammable aerosol.		
H225	Highly flammable liquid and vapour.		
H229	Pressurised container: May burst if heated.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H361f	Suspected of damaging fertility.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H411	Toxic to aquatic life with long lasting effects.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aerosol 1	H222;H229	On basis of test data
Skin Irrit. 2	H315	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

