

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 0269A Issue date: 06-12-2022 Revision date: 06-12-2022 Supersedes version of: 06-12-2022 Version: 1.1

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

1.1. Product identifier

Product form	: Substance
Trade name	: n-PROPYL ALCOHOL GC
IUPAC name	: Propan-1-ol
EC Index-No.	: 603-003-00-0
EC-No.	: 200-746-9
CAS-No.	: 71-23-8
Product code	: 0269A
Type of product	: Solvents
Formula	: C3H8O
Chemical structure	H ₃ C OH
Synonyms	: 1-Propanol, n-Propyl alcohol, n-P

1-Propanol, n-Propyl alcohol, n-Propanol, Ethyl carbinol, 1-Hydroxypropane, Propionic alcohol, Propionyl alcohol, Propylol, Propyl alcohol, Propylol

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

1.2.1. Relevant identified uses

Use of the substance/mixture Use of the substance/mixture : Laboratory chemicals, Manufacture of substances : Solvents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 1 H318 Specific target organ toxicity – Single exposure, Category 3, Narcosis H336 Full text of H- and EUH-statements: see section 16 H318

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye damage.

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS05 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapour. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients 3.1. Substances Substance type : Mono-constituent Name : n-PROPYL ALCOHOL CAS-No. : 71-23-8 EC-No. : 200-746-9 EC Index-No. : 603-003-00-0 3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 	
First-aid measures after skin contact	: Get immediate medical advice/attention. Wash with plenty of water/ Rinse skin with water/shower. Take off immediately all contaminated clothing.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention. Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after eye contact	 May cause drowsiness or dizziness. May cause drowsiness or dizziness. Causes serious eye damage. Serious damage to eyes. 	
4.3. Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.		

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.Do not use extinguishing media containing water.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Protection during firefighting	 Do not enter fire area without proper protective equipment, including respiratory protection. 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	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	 Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection". Ventilate area. 	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
	 Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters. 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	 Handle empty containers with care because residual vapours are flammable. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.	
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.	
Incompatible materials	: Heat sources.	

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	8.1. Control parameters		
8.1.1 National occupational exposure and biological	limit values		
n-PROPYL ALCOHOL GC (71-23-8)			
Portugal - Occupational Exposure Limits			
Local name	n-Propanol (Álcool n-propilo)		
OEL TWA [ppm]	100 ppm		
Remark	A4 (Agente não classificável como carcinogénico no Homem)		
Regulatory reference	Norma Portuguesa NP 1796:2014		
Spain - Occupational Exposure Limits			
Local name	n-Propanol (Alcohol n-propílico)		
VLA-ED (OEL TWA) [1]	500 mg/m³		
VLA-ED (OEL TWA) [2]	200 ppm		
VLA-EC (OEL STEL)	1000 mg/m³		
VLA-EC (OEL STEL) [ppm]	400 ppm		
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).		
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT		
United Kingdom - Occupational Exposure Limits			
Local name	Propan-1-ol		
WEL TWA (OEL TWA) [1]	500 mg/m³		
WEL TWA (OEL TWA) [2]	200 ppm		
WEL STEL (OEL STEL)	625 mg/m³		
WEL STEL (OEL STEL) [ppm]	250 ppm		

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n-PROPYL ALCOHOL GC (71-23-8)	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Propanol (n-Propyl alcohol)
ACGIH OEL TWA [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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		
9.1. Information on basic physical and che Physical state Appearance Molecular mass Colour Odour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility	<pre>mical properties : Liquid : Clear liquid. : 60.1 g/mol : Colourless. : alcoholic odour. : 2.6 ppm : ~ 8.5 (200 g/l at 20°C) : 1.3 : Not applicable : -127 °C : 97 - 98 °C : 22 °C : 400 °C : No data available : Flammable Highly flammable liquid and vapour,Not applicable : 19.3 hPa at 20°C : 2.07 (Air = 1.0) : No data available : 0.804 g/cm³ at 20°C : Water: Miscible in water</pre>	
Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties	 No data available 2.749 mm²/s 2.21 mPa.s at 20°C No data available 	
Oxidising properties Lower explosive limit (LEL) Upper explosive limit (UEL)	 No data available 2.3 vol % 13.7 vol % 	

9.2. Other information

Refractive index

: 1.384 - 1.386 (20°C, 589 nm)

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

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

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

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SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified pH: ≈ 8.5 (200 g/l at 20°C) Serious eye damage/irritation : Causes serious eye damage. pH: ≈ 8.5 (200 g/l at 20°C) Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. STOT-repeated exposure : Not classified Aspiration hazard : Not classified n-PROPYL ALCOHOL GC (71-23-8) Viscosity, kinematic 2.749 mm²/s

SECTION 12: Ecological information

12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Hazardous to the aquatic environment, short-term Not classified : (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	;
13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-
Additional information	 hazardous waste. Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number	
UN-No. (ADR)	: UN 1274
UN-No. (IMDG)	: UN 1274
UN-No. (IATA)	: UN 1274
UN-No. (ADN)	: UN 1274
UN-No. (RID)	: UN 1274

14.2. UN proper shipping name

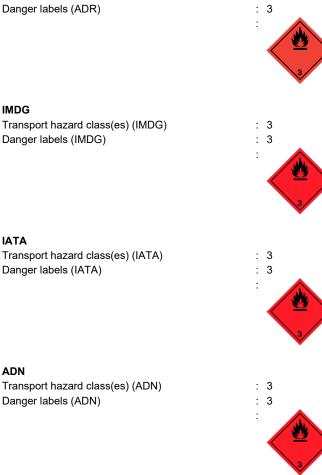
Proper Shipping Name (ADR)	: N-PROPANOL (PROPYL ALCOHOL, NORMAL)
Proper Shipping Name (IMDG)	: n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Proper Shipping Name (IATA)	: n-Propanol
Proper Shipping Name (ADN)	: n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Proper Shipping Name (RID)	: n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Transport document description (ADR)	: UN 1274 N-PROPANOL (PROPYL ALCOHOL, NORMAL), 3, II, (D/E)
Transport document description (IMDG)	: UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL), 3, II (15°C c.c.)
Transport document description (IATA)	: UN 1274 n-Propanol, 3, II
Transport document description (ADN)	: UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL), 3, II
Transport document description (RID)	: UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL), 3, II

: 3

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



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RID Transport hazard class(es) (RID) Danger labels (RID)	
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG) Packing group (IATA)	: II : II
Packing group (ADN)	: II
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant Other information	:No :No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR) Mixed packing provisions (ADR)	: P001, IBC02, R001 : MP19
Portable tank and bulk container instructions (ADR)	
	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.)	: S2, S20 : 33
Orange plates	33 1274
Tunnel restriction code (ADR)	: D/E
EAC code	: •2YE
Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG) Packing instructions (IMDG)	: E2 : P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage) Stowage category (IMDG)	: S-D : B
Flash point (IMDG)	: 15°C to 23°C c.c.
Properties and observations (IMDG)	: Colourless liquid. Explosive limits: 2% to 12% Flashpoint: 15°C to 23°C c.c. Miscible with water.
MFAG-No	: 129
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
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PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	:	1L 353 5L 364 60L A3 3L
Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	:	F1 1 L E2 T PP, EX, A VE01 1
Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	:	F1 1L E2 P001, IBC02, R001 MP19 T4 TP1
Tanks codes for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	:	LGBF 2 CE7 33

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	n-PROPYL ALCOHOL GC
3(b)	n-PROPYL ALCOHOL GC
40.	n-PROPYL ALCOHOL GC

REACH Annex XIV (Authorisation List)

n-PROPYL ALCOHOL GC is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

n-PROPYL ALCOHOL GC is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

n-PROPYL ALCOHOL GC is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

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POP Regulation (Persistent Organic Pollutants)

n-PROPYL ALCOHOL GC is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

n-PROPYL ALCOHOL is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 176).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h225;h318;h336>; Emergency management guidelines for the storage of flammable</h225;h318;h336>
	liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard

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Abbreviations and acronyms:	
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
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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.