

SAFETY DATA SHEET

Methanol Pure Primary

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

Date of issue : 2023-01-12
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Version : 1

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

1.1. Product identifier

Product name : Methanol Pure Primary
Chemical name : Methanol
EC Index-No. : 603-001-00-X
EC number : 200-659-6
CAS number : 67-56-1
INCI Name : Not available
REACH Registration number : 01-2119433307-44-XXXX
Other means of identification : methyl alcohol, wood spirit
Chemical formula : CH₃OH or CH₄O

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

Typical applications : Solvents
Raw material for chemistry
Intermediate
Process regulator or aid
Fuels
Fuel additives

Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Name : GLI-THERM Sp. z o.o.
Address : st. Rozwojowa 11, 44-338 Jastrzębie-Zdrój Poland
Regon : 242850136
NIP/Tax No : 6423178990
Telephone : +48 733 525 533
E-mail : sandra.stachowicz@gli therm.eu
Website address : www.glitherm.eu

1.4. Emergency telephone number

National advisory body/Poison Center:

Ireland : National Poisons Information Centre
Emergency number:
+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166
(public, 8am - 10pm, 7/7)

United Kingdom	:	National Poisons Information Service (Newcastle Centre) Emergency number: 0844 892 0111 (UK only, 24/7, healthcare professionals only)
Poland	:	Szpital Praski p.w. Przemienienia Pańskiego Sp. z o.o. Emergency number: +48 22 619 66 54 +48 22 619 08 97
Germany	:	Vergiftungs-Informationen-Zentrale Freiburg Emergency number: +49 (0) 761 19240
24 Hour Emergency Telephone	:	+(44)-8708200418 CHEMTREC
Supplier		
Telephone number	:	+48 733 525 533

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	:	H225
Acute toxicity (oral), Category 3	:	H301
Acute toxicity (dermal), Category 3	:	H311
Acute toxicity (inhalation:vapour) Category 3	:	H331
Specific target organ toxicity – single exposure, Category 1	:	H370

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects:

Highly flammable liquid and vapour. Causes damage to organs (optic nerve, central nervous system). Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed.

2.2. Label elements

Hazard pictograms

:



- Signal word** : DANGER
- Hazard statements** : **H225** Highly flammable liquid and vapour.
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to the central nervous system and the visual organs.
- Precautionary statements**
- Prevention** : **P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist, vapours, spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection.
- Response** : **P301+P310** IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P308+P311 IF exposed or concerned: Call a POISON CENTER, a doctor.
- Disposal** : P501 Dispose contents / container to destinations in accordance with local, regional, national and international regulations.
- Listed on CLP Annex VI** : EC Index-No.: 603-001-00-X

2.3. Other hazards

- Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
- Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
- Other hazards which do not result in classification** : Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44-xxxx	100	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation:vapour), H331 (ATE=3 mg/1/4h) STOT SE 1, H370	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type:

[A] Constituent

[B] Impurity

[C] Stabilizing additive

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	:	In all cases of doubt, or when symptoms persist, seek medical attention. Call a physician immediately.
Eye contact	:	Rinse eyes with water as a precaution.
Inhalation	:	Remove person to fresh air and keep comfortable for breathing. Call a doctor.
Skin contact	:	Rinse skin with water/shower. Take off immediately all contaminated clothing.
Ingestion	:	Rinse mouth. Call a physician immediately.

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

No additional information available

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

Notes to physician	:	Treat symptomatically.
Specific treatments	:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	:	Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Highly flammable liquid and vapour.
Explosion hazard	:	Explosive vapour/air mixtures may be formed.
Hazardous decomposition products in case of fire	:	Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3 Advice for firefighters

- Firefighting instructions** : Protect container with water spray.
- Protection during firefighting** : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information** : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe mist, vapours, spray. Avoid contact with skin, eyes and clothing.
- For emergency responders** : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters..

6.3. Methods and materials for containment and cleaning up

- Methods for cleaning up** : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Notify authorities if product enters sewers or public waters.
- Other information** : Disposal must be done according to official regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1. Precautions for safe handling

- Additional hazards when processed** : In use, may form flammable vapour-air mixture.
- Precautions for safe handling** : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Do not breathe mist,

vapours, spray. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities.

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat and direct sunlight.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Recommendations : No additional information available

Industrial sector specific solutions : No additional information available

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

8.1. Control parameters

National occupational exposure and biological limit values

methanol (67-56-1)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name : Methanol
IOEL TWA : 260 mg/m³
IOEL TWA [ppm] : 200 ppm
Remark : Skin
Regulatory reference : COMMISSION DIRECTIVE 2006/15/EC

Ireland - Occupational Exposure Limits

Local name : Methanol [Methyl alcohol]
OEL TWA [1] : 260 mg/m³
OEL TWA [2] : 200 ppm
Remark : Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference : Chemical Agents Code of Practice 2021

Ireland - Biological limit values

Local name	:	Methanol
BLV	:	15 mg/l Parameter: methanol - Medium: urine - Sampling time: End of shift - Notations: B (Background), Ns (Non-specific)
Regulatory reference	:	Biological Monitoring Guidelines (HSA, 2011)

Recommended monitoring procedures : No additional information available

**Air contaminants formed
DNEL and PNEC** : No additional information available

methanol (67-56-1)

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	:	20 mg/kg bodyweight/day
Acute - systemic effects, inhalation	:	130 mg/m ³
Acute - local effects, inhalation	:	130 mg/m ³
Long-term - systemic effects, dermal	:	20 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	:	130 mg/m ³
Long-term - local effects, inhalation	:	130 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, dermal	:	4 mg/kg bodyweight
Acute - systemic effects, inhalation	:	26 mg/m ³
Acute - systemic effects, oral	:	4 mg/kg bodyweight
Acute - local effects, inhalation	:	26 mg/m ³
Long-term - systemic effects, oral	:	4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	:	26 mg/m ³
Long-term - systemic effects, dermal	:	4 mg/kg bodyweight/day
Long-term - local effects, inhalation	:	26 mg/m ³

Control banding : No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protection equipment

Hygiene measures : Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

Eye/face protection : Use splash goggles when eye contact due to splashing is possible. EN 166

Hand protection : Chemically resistant protective gloves. EN 374. Butyl rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each

manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear.

Type: Chemically resistant protective gloves

Material: Butyl rubber

Permeation: 6 (> 480 minutes)

Thickness (mm): 0,7

Standard: EN ISO 374

Other skin protection	:	Materials for protective clothing: Use protective clothing
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Breathing apparatus with filter. Filter type: A-P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.
Thermal hazards	:	No additional information available
Environmental exposure controls	:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	colourless.
Odor	:	Pungent.
Odor threshold	:	Not available
pH	:	Not available
Boiling point	:	64.7 °C (at 1013 hPa)
Melting point/freezing point	:	-97.8 °C
Flash point	:	9.7 °C (at 1013 hPa)
Flammability (solid, gas)	:	Not applicable
Lower explosive limits	:	Not available
Upper explosive limits	:	Not available
Vapor pressure at 25 °C	:	169.27 hPa
Density	:	Not available
Relative density	:	Not available
Solubility(ies)	:	Miscible. Water: ≥ 1000 g/l
Partition coefficient: n-octanol/water (Log Pow)	:	-0.77
Auto-ignition temperature	:	455 °C (DIN 51794)
Decomposition temperature	:	Not available
Relative vapour density at 20°C	:	0.79 – 0.8
Viscosity	:	Not available
Kinematic viscosity	:	Not available
Dynamic:	:	Not available

Particle characteristics : Not applicable

9.2. Other information

Explosive properties : Product is not explosive. Explosive vapour/air mixtures may be formed.

Oxidising properties : Non oxidizing.

Other safety characteristics : No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. 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

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.

Acute toxicity (dermal) : Toxic in contact with skin.

Acute toxicity (inhalation) : Toxic if inhaled.

methanol (67-56-1)

Oral : LD50 1187 – 2769 mg/kg

Inhalation : LC50 128.2 mg/1/4h (Rat)

NOAEL (chronic, oral, animal/male, 2 years) : 466 – 529 mg/kg bodyweight

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/eye irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : Not classified (No sensitizing reaction was observed for guinea pigs. Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenic : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity - single exposure	:	Causes damage to organs (optic nerve, central nervous system).
Specific target organ toxicity - repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)

11.2 Information on other hazards

Endocrine disrupting properties	:	No additional information available
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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 (acute)	:	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified (Based on available data, the classification criteria are not met)
methanol (67-56-1)		
LC50 - Fish [1]	:	15400 mg/l (96 h; <i>Lepomis macrochirus</i> ; (EPA-660/3-75-009))
EC50 - Crustacea [1]	:	18260 mg/l (48 h; <i>Daphnia magna</i> ; (OECD 202 method))
ErC50 algae	:	≈ 22000 mg/l (96 h; <i>Pseudokirchneriella subcapitata</i> ; (OECD 201 method))
NOEC (chronic)	:	208 mg/l (21 d; <i>Daphnia magna</i> ; QSAR)

12.2 Persistence and degradability

methanol (67-56-1)		
Persistence and degradability	:	Readily biodegradable.
Biodegradation	:	95 % (20 d)

12.3 Bioaccumulative potential

methanol (67-56-1)

BCF - Fish [1]	:	1
Partition coefficient n-octanol/water (Log Pow)	:	-0.77
Bioaccumulative potential	:	Bioaccumulation unlikely.

12.4 Mobility in soil

Soil/water partition coefficient (KOC)	:	No additional information available
Mobility	:	No additional information available

12.5 Results of PBT and vPvB assessment

PBT	:	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
vPvB	:	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

Other adverse effects	:	No additional information available
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	:	Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations	:	Recycle or dispose of in compliance with current legislation.
Additional information	:	Flammable vapours may accumulate in the container.
HP Code	:	HP3 - "Flammable:" <ul style="list-style-type: none">– 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 ≤ 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.
 HP6 - “Acute Toxicity:” waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

SECTION 14: Transport information

	ADR/RID	ADNR/ADN	IMDG	IATA
14.1. UN Number	UN 1230	UN 1230	UN 1230	UN 1230
14.2. UN Proper Shipping Name	METHANOL	METHANOL	METHANOL	Methanol
Transport document description	UN 1230 METHANOL, 3 (6.1), II, (D/E)	UN 1230 METHANOL, 3 (6.1), II	UN 1230 METHANOL, 3 (6.1), II (12°C c.c.)	UN 1230 Methanol, 3 (6.1), II
14.3. Transport Hazard Class(es)	3 (6.1)  	3 (6.1)  	3 (6.1)  	3 (6.1)  
14.4. Packing Group	II	II	II	II
14.5. Environmental Hazards	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
14.6. Special Precautions for users	Classification code: FT1 Special provisions: 279 Limited quantities: 1L Excepted quantities: E2 Transport category: 2 Hazard identification number (Kemler No.): 336 Tunnel restriction code: D/E	Classification code: FT1 Special provisions: 279, 802 Limited quantities: 1L Excepted quantities: E2 Carriage permitted: T	Special provisions: 279 Limited quantities: 1L Excepted quantities: E2 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D Stowage and handling: SW2	PCA Excepted quantities: E2 PCA Limited quantities: Y341 PCA limited quantity max net quantity: 1L PCA packing instructions: 352 PCA max net quantity: 1L CAO max net quantity: 60L Special provisions: A113

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

Other information, restriction and prohibition regulations:

Take note of Directive 94/33/EC on the protection of young people at work. Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	: Applicable on
3(a)	: methanol
3(b)	: methanol
40.	: methanol
69.	: methanol

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Seveso Directive (Disaster Risk Reduction)

Seveso III Part II (Named dangerous substances) 22. Methanol

Qualifying quantity (tonnes) Lower-tier 500; Upper-tier 5000

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)

National regulations Ireland

Refer to S.I. No. 299/2007 (Safety, Health and Welfare at Work (General Application) Regulations 2007) on the protection of young people at work (Art. 143-146).

15.2 Chemical Safety Assessment:

No chemical safety assessment has been carried out

SECTION 16: Other information

The data is confirmed based on the state of our knowledge, but does not determine how the production properties and cannot be used to justify legally binding contracts.

Abbreviations and acronyms or relevant phrases

H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H332	:	Harmful if inhaled.
H336	:	May cause drowsiness or dizziness.
H370	:	Causes damage to organs.
EUH066	:	Repeated exposure may cause skin dryness or cracking
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemical
MARPOL	:	(from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
N/A	:	Not applicable
N/D	:	Not determined
NE	:	Not established
VOC	:	Volatile Organic Compound
AICS	:	Australian Inventory of Chemical Substances
AIHA WEEL	:	American Industrial Hygiene Association Workplace Environmental Exposure Limits
DSL	:	Domestic Substance List (Canada)
ELINCS	:	European List of Notified Chemical Substances
ENCs	:	Existing and new Chemical Substances (Japanese inventory)
IECSC	:	Inventory of Existing Chemical Substances in China
KECI	:	Korean Existing Chemicals Inventory
NDSL	:	Non-Domestic Substances List (Canada)
NZIoC	:	New Zealand Inventory of Chemicals
PICCS	:	Philippine Inventory of Chemicals and Chemical Substances
TLV	:	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	:	Toxic Substances Control Act (U.S. inventory)
UVCB	:	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
IBC Code	:	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN	:	United Nations (also UNO: United Nations Organization)
NOEC	:	No Observed Effect Concentration
NOELR	:	No Observable Effect Loading Rate

OECD	:	Organization for Economic Co-operation and Development
ASTM	:	American Society for Testing and Materials
WAF	:	Water Accommodated Fraction
ADR	:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG	:	International Maritime Code for Dangerous Goods
IATA	:	International Air Transport Association
GHS	:	Globally Harmonised System of Classification and Labeling of Chemicals
EINECS	:	European Inventory of Existing Commercial Chemical Substances
CAS	:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL	:	Derived No-Effect Level (REACH)
PNEC	:	Predicted No-Effect Concentration (REACH)
LC	:	Lethal Concentration
LD	:	Lethal Dose
LL	:	Lethal Loading
EC	:	Effective Concentration
EL	:	Effective Loading
LC50	:	Lethal concentration, 50 percent
LD50	:	Lethal dose, 50 percent
PBT	:	Persistent, Bioaccumulative and Toxic
vPvB	:	very Persistent and very Bioaccumulative
Acute Tox, 4	:	Acute toxicity - Category 4
Notice to reader	:	The information contained herein is accurate to the latest knowledge and describes the product from the point of view of health and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"