

LIQUID NITROGEN

Date of compilation: 17.05.2026 Version: 1

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

1.1 Product identifier: Nitrogen, refrigerated liquid

CAS: 7727-37-9

EC: 231-783-9

Index: Not available

REACH: Exempt

Other means of identification:

Not available

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

Relevant uses (Industrial user)

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

YOLBULAN ÇELİK SANAYİ VE TİCARET ANONİM ŞİRKETİ

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Press. Gas (Ref. Liq.): Gases under pressure (Refrigerated liquefied gas), H281

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Press. Gas (Ref. Liq.): H281 - Contains refrigerated gas, may cause cryogenic burns or injury.

Precautionary statements:

P282: Wear cold insulating gloves and either face shield or eye protection.

P336+P315: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

P403: Store in a well-ventilated place.

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Refrigerated liquefied substance

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification		Concentration
CAS:	7727-37-9	Nitrogen		100 %
EC:	231-783-9	Regulation 1272/2008	Press. Gas (Ref. Liq.) H281 - Warning	
Index:	Non-applicable			
REACH:	Non-applicable			

To obtain more information on the hazards of the substances consult sections 11, 12 and 16. The purity of the substance is used for classification purposes, see the Analysis document.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**3.2 Mixture:**

Non-applicable

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures:**

Suffocating gas. Causes respiratory arrest Exposure to rapidly expanding gases can cause frostbite burns.

By inhalation:

High concentrations cause suffocation. Remove the person from the exposed area to fresh air. Seek immediate medical attention if the person loses consciousness. If breathing has stopped, perform artificial respiration.

By skin contact:

In situations where local frostbite burns occur due to contact with gas, contaminated clothing should not be removed if it is stuck to the skin. Wash the frozen areas with lukewarm water. Do not rub the affected area.

By eye contact:

In case of local frostbite, rinse the eyes immediately with plenty of lukewarm water for at least 15 minutes. It is recommended to remove contact lenses if they are removable.

By ingestion/aspiration:

It is not considered a potential route of exposure.

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

Causes respiratory arrest. Exposure to rapidly expanding gas or vaporizing liquid can cause frostbite ("cold burns"). Contact can cause irritation with redness, tearing, pain, and/or blurred vision.

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

It causes respiratory arrest. Contact with liquefied gas may cause damage (freezing) due to cooling. Seek immediate medical attention.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:**

Suitable extinguishing media: A fire extinguisher suitable for extinguishing burning material should be used.

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: None caused by this product.
Exposure to fire may cause containers to rupture/explode.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:** Check the oxygen level indoors, do not enter if it is <19.5%.**For non-emergency personnel:**

Try to stop the spill if there is no additional risk to the people performing this task. Evacuate the area. Ensure adequate ventilation. Prevent it from entering drains, basements, or any other place where it may be dangerous to accumulate.

For emergency responders:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Unless the environment has been proven to be safe, use self-contained breathing apparatus. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Try to stop release if there is no additional risk for the people performing this task.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Use water spray to reduce vapors and/or divert the vapor cloud. Try to stop the release if there is no additional risk to the persons performing this task. Evacuate and isolate the area until the gas has dispersed.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling:****A.- General precautions for safe use**

SAFE USE OF THE PRODUCT: Do not breathe gas. Avoid release of product into atmosphere. The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

SAFE HANDLING OF THE GAS RECEPTABLE: Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.

B.- Technical recommendations for the prevention of fires and explosions

Pressurized gases should only be carried/used by experienced and appropriately trained persons. Use equipment with the right specifications, suitable for the supply pressure and temperature of the product. Close the valve after each use and when it is drained. Replace all valve guards as soon as the container is disconnected from the equipment. Use appropriate means to transport containers: do not drag, roll, drop, etc. Prevent water from being sucked back into the container. Avoid feeding back into the container. Release air from the system before introducing gas. Only use equipment with the appropriate specifications, suitable for this product as well as the supply temperature and pressure. In case of doubt, contact your gas supplier. Make sure the ventilation is adequate. Wear the necessary personal protective equipment. See sec 10 for conditions and materials to avoid.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Store in a well-ventilated place. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:**A.- Specific storage requirements**

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Keep the container in a well-ventilated place. Prevent the build-up of static electricity. Store containers upright and secure them properly to prevent them from falling or tipping over. Stored containers should be checked periodically for overall condition and leaks. Store away from unsuitable materials (See sec 10).

7.3 Specific end use(s):

No use other than as defined in this section and section 1.2 is prescribed.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Not available

DNEL (General population):

Not available

PNEC:

Not available

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

Ensure both general and local ventilation are provided, with an appropriate air renewal frequency to keep exposures below recommended limits. If no limits are established, maintain contaminants at acceptable levels. Select personal protective equipment based on risk analysis and consult with your personal protective equipment provider as needed. Make sure that personal protective equipment complies with current regulations. Periodically check containers for leaks, and consider using gas detectors when gases could potentially be released into the environment.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Not required in open area/general work			Wear cryogenic protective equipment when transferring or filling liquid nitrogen

SCBA (Clean Air Tube Breathing Set) in Confined Space or in Case of Leakage: Use positive pressure scuba breathing systems that are completely independent of ambient air.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Cryogenic (resistant to extreme cold)		EN 511 cryogenic (extreme cold resistant) glove.	Change gloves before any signs of deterioration.

In the event of potential exposure to the product at low temperatures, consider the use of cold-resistant thermal gloves.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic goggles against splashes and/or throws, visor.		EN 166 full face shield	

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Cryogenic protection suit			Frost and cold burn resistant protection.
Mandatory foot protection	Cryogenic protection shoes			Replace at any sign of deterioration

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m ³ (0 g/L)
Average carbon number:	Not available
Average molecular weight:	Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Gas
Appearance:	Refrigerated liquefied gas
Colour:	Colorless
Odour:	Odorless
Odour threshold:	Not available *

Volatility:

Boiling point at atmospheric pressure:	-195,8 °C
Vapour pressure at 20 °C:	Not available *
Vapour pressure at 50 °C:	Not available *
Evaporation rate at 20 °C:	Not available *

Product description:

Density at -195,8 °C:	808 kg/m ³
Gas density:	1,17 kg/m ³
Dynamic viscosity at 20 °C:	Not available *
Kinematic viscosity at 20 °C:	Not available *
Kinematic viscosity at 40 °C:	Not available *
Concentration:	Not available *
pH:	Not available *
Relative vapour density :	0,97
Partition coefficient n-octanol/water 20 °C:	Not available *
Solubility in water at 20 °C:	Approx. 20 mg/L
Solubility properties:	Not available *
Decomposition temperature:	Not available *

*Not available due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Melting point/freezing point: -210 °C

Flammability:

Flash Point: Non Flammable

Flammability (solid, gas): Not available *

Autoignition temperature: Not available *

Lower flammability limit: Not available *

Upper flammability limit: Not available *

Particle characteristics:

Median equivalent diameter: Not available *

9.2 Other information:
Information with regard to physical hazard classes:

Explosive properties: Not available *

Oxidising properties: Not oxidizing

Corrosive to metals: Not available *

Heat of combustion: Not available *

Expansion Ratio: 1L liquid ≈ 694 L gas

Other safety characteristics:

Critical temperature : -147,1 °C

Critical pressure : 33,9 bar

*Not available due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use. Materials such as carbon steel, low-alloy carbon steel, and plastics become brittle at low temperatures and are prone to breakage/damage. Use suitable materials that are compatible with cryogenic (extremely low temperature) conditions

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Danger of explosion	Precaution	Precaution	Avoid direct impact	Avoid humidity in the system

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

Not available

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

It is non-toxic. It can reduce the oxygen concentration and produce a suffocating effect.

Dangerous health implications:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Contact with liquefied gas may cause frostbite, in some cases with tissue injuries.
- Contact with the eyes: Contact with liquefied gas can cause frostbite with redness, blurred vision and eye damage.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: Not available
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Nitrogen CAS: 7727-37-9 EC: 231-783-9	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation gases	>20000 mg/L	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not available

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SECTION 12: ECOLOGICAL INFORMATION

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	Not relevant	-

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.

Type of waste (Regulation (EU) No 1357/2014):

-

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number:	UN1977
14.2 UN proper shipping name:	NITROGEN, REFRIGERATED LIQUID
14.3 Transport hazard class(es):	2
Labels:	2.2
14.4 Packing group:	N/A
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Special regulations:	-
Tunnel restriction code:	C/E
Physico-Chemical properties:	see section 9
Limited quantities:	120 mL
14.7 Maritime transport in bulk according to IMO instruments:	Not available

Transport of dangerous goods by sea:

With regard to IMDG 42-24:



14.1 UN number or ID number:	UN1977
14.2 UN proper shipping name:	NITROGEN, REFRIGERATED LIQUID
14.3 Transport hazard class(es):	2.2
Labels:	2.2
14.4 Packing group:	N/A
14.5 Marine pollutant:	No
14.6 Special precautions for user	
Special regulations:	Not available
EmS Codes:	F-C, S-V
Physico-Chemical properties:	see section 9
Limited quantities:	120 mL
Segregation group:	Not available
14.7 Maritime transport in bulk according to IMO instruments:	Not available

Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:



14.1 UN number or ID number:	UN1977
14.2 UN proper shipping name:	NITROGEN, REFRIGERATED LIQUID
14.3 Transport hazard class(es):	2.2
Labels:	2.2
14.4 Packing group:	N/A
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Not available

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: Not available
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not available
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not available
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not available
- Regulation (EU) 2024/590, about substances that deplete the ozone layer: Not available
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not available

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Not available

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SECTION 15: REGULATORY INFORMATION (continued)**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits
The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not available

Texts of the legislative phrases mentioned in section 2:

H281: Contains refrigerated gas, may cause cryogenic burns or injury.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Press. Gas: H280 - Contains gas under pressure, may explode if heated.

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

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- END OF SAFETY DATA SHEET -