

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 03398

Issue date: 3/20/2024 Revision date: 3/20/2024 Supersedes version of: 5/30/2016 Version: 1.0

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

1.1. Product identifier

Product form Trade name EC Index-No. EC-No. CAS-No. Product code Type of product Formula Chemical structure : Substance : N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY : 616-001-00-X : 200-679-5 : 68-12-2 : 03398 : Amide : C3H7NO : O H N CH₃

Synonyms

: Dimethyl formamide, N,N-Dimethyl methanamide, DMF

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

Industrial
 For professional use only
 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]

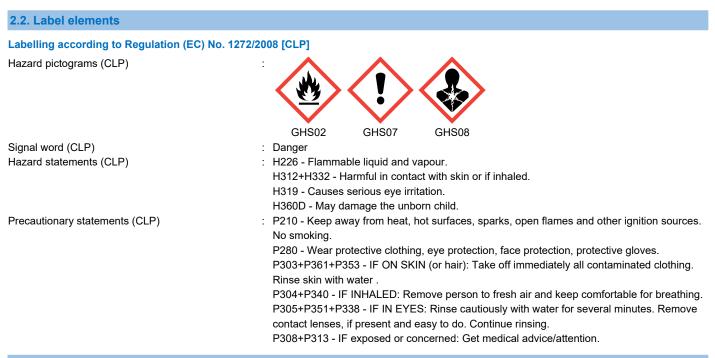
Flammable liquids, Category 3	H226
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 4	H332
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 1B	H360D
Full text of H- and EUH-statements: see section 16	

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Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May damage fertility or the unborn child. Harmful in contact with skin. Harmful if inhaled. Causes serious eye irritation.



2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT and/or vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	N,N-DIMETHYL FORMAMIDE (68-12-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	N,N-DIMETHYL FORMAMIDE (68-12-2)

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
N,N-DIMETHYL FORMAMIDE substance listed as REACH Candidate (N,N- dimethylformamide)	CAS-No.: 68-12-2 EC-No.: 200-679-5 EC Index-No.: 616-001-00-X	100

3.2. Mixtures

Not applicable

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: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.
: Immediately call a POISON CENTER/doctor. Wash with plenty of water/ Wash contaminated clothing before reuse. Rinse skin with water/shower. Take off immediately all contaminated clothing.
: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
: Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.
ffects, both acute and delayed
 May damage the unborn child. Harmful if inhaled. Harmful in contact with skin. Causes serious eye irritation. Eye irritation. None under normal conditions.

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.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	 Flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. 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 relea	se measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
General measures	 Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid
	breathing dust/fume/gas/mist/vapours/spray.

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6.1.2. For emergency responders	
Protective equipment	: 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".
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for con	tainment and cleaning up
For containment	: Absorb spilled material with sand or earth. 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	Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers. Notify authorities if product enters sewers or public waters.
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	 Handle empty containers with care because residual vapours are flammable. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Do not handle until all safety precautions have been read and understood. 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. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.
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. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions	: Keep container tightly closed. Keep in fireproof place. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible materials	: Heat sources.
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

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

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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:

Wear recommended personal protective 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

Skin and body protection: Wear a mask

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic ph	ysical and chemical properties
Physical state Colour Appearance Molecular mass Odour Odour threshold	 Liquid Colourless. Clear liquid. 73.09 g/mol fishy pungent & amine like. Not available
Melting point Freezing point Boiling point Flammability	 Not applicable -61 °C 153 °C Flammable Flammable liquid and vapour.

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Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic Viscosity, kinematic Viscosity, dynamic Solubility Partition coefficient n-octanol/water (Log Kow) Partition coefficient n-octanol/water (Log Pow) Vapour pressure Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C	 2.2 vol % 15.2 vol % 58 °C 445 °C > 350 °C 7 (200 g/l at 20 °C) 0.969 mm²/s 0.92 mPa·s at 20 °C Water: Miscible Not available 1.01 3.77 hPa at 20°C Not available 0.949 g/cm³ at 20 °C Not available 2.51 (Air = 1.0)
5	
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: 0.17
Refractive index	: 1.4295 – 1.4305 (20 °C, 589 nm)

SECTION 10: Stability and reactivity
10.1. Reactivity
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.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Harmful if inhaled.
Skin corrosion/irritation	: Not classified
	pH: 7 (200 g/l at 20 °C)
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 7 (200 g/l at 20 °C)

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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
N,N-DIMETHYL FORMAMIDE MOL	ECULAR BIOLOGY (68-12-2)
Viscosity, kinematic	0.969 mm²/s
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	i
No additional information available	

: Harmful in contact with skin.

11.2.2. Other information

Potential adverse human health effects and symptoms

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
Hazardous to the aquatic environment, long–term : (chronic)	Not classified
12.2. Persistence and degradability	
N,N-DIMETHYL FORMAMIDE MOLECULAR B	BIOLOGY (68-12-2)
Persistence and degradability	Rapidly degradable

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

N,N-DIMETHYL FORMAMIDE (68-12-2)
N,N-DIMETHYL FORMAMIDE (68-12-2)

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container. Do not re-use empty containers.

SECTION 14: Transport information

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

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 2265
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 N,N-DIMETHYLFORMAMIDE N,N-DIMETHYLFORMAMIDE n,n-Dimethylformamide N,N-DIMETHYLFORMAMIDE N,N-DIMETHYLFORMAMIDE UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III, (D/E) UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III (58°C c.c.) UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR): 3Danger labels (ADR): 3

IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	
IATA Transport hazard class(es) (IATA)	: 3
Danger labels (IATA)	: 3

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ADN Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	
RID Transport hazard class(es) (RID)	: 3
Danger labels (RID)	
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG) Packing group (IATA)	: III : III
Packing group (ADN)	: 10
Packing group (RID)	: 111
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) Excepted quantities (ADR)	: 5l : E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions	: T2 : TP2
(ADR)	
Tank code (ADR)	: LGBF
Vehicle for tank carriage Transport category (ADR)	: FL : 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.) Orange plates	
	30 2265
Tunnel restriction code (ADR) EAC code	: D/E : •2Y
Transport by sea	
Limited quantities (IMDG) Excepted quantities (IMDG)	: 5L : E1
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Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Flash point (IMDG)	: 58°C c.c.
Properties and observations (IMDG)	: Colourless liquid. Flashpoint: 58°C c.c. Explosive limits: 2.2% to 16%. Miscible with water.
······································	May react violently with oxidizing materials.
MFAG-No	: 129
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 3L
()	
Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions	: TP2
(RID)	
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30
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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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(b)	N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY	
30.	N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY	
40.	N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY	
72.	N,N-DIMETHYL FORMAMIDE MOLECULAR BIOLOGY	

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Listed on the REACH Candidate List: N,N-dimethylformamide

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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit 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)

15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

Germany

Water hazard class (WGK) Chemicals Prohibition Ordinance (ChemVerbotsV) Hazardous Incident Ordinance (12. BImSchV)	 WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 83). This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10). Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	 The substance is not listed

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SZW-lijst van reprotoxische stoffen – Ontwikkeling	: N,N-DIMETHYL FORMAMIDE is listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and ad	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		
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		

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Abbreviations and acronyms:		
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:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H312	Harmful in contact with skin.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H360D	May damage the unborn child.	
Repr. 1B	Reproductive toxicity, Category 1B	

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.