

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 03355 Issue date: 4/9/2014 Revision date: 7/16/2025 Supersedes version of: 5/27/2016 Version: 1.1

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

1.1. Product identifier

Product form Trade name EC-No. CAS-No. Product code Type of product Formula Chemical structure

N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS
 230-392-0
 7078-68-5
 03355
 Amines
 C8H19N

: Substance

 CH_3 CH₃ CH₃ CH_3

Synonyms

: Ethylene diisopropylamine

1.2. Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	
Use of the substance/mixture Use of the substance/mixture	 Industrial. For professional use only Laboratory chemicals Manufacture of substances
1.3. Details of the supplier of the safet	y 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]

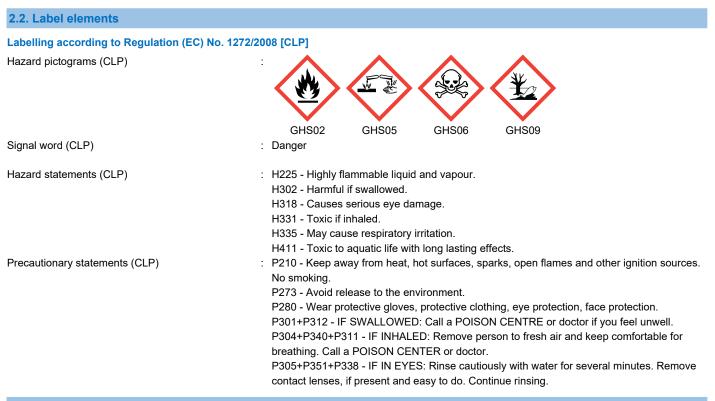
Flammable liquids, Category 2	H225	
Acute toxicity (oral), Category 4	H302	
Acute toxicity (inhal.), Category 3	H331	
Serious eye damage/eye irritation, Category 1	H318	
Specific target organ toxicity – Single exposure, Category 3,	H335	
Respiratory tract irritation		
Hazardous to the aquatic environment – Chronic Hazard,	H411	
Category 2		
Full text of H- and EUH-statements: see section 16		

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Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Toxic if inhaled. Harmful if swallowed. May cause respiratory irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
N,N-DIISOPROPYLETHYLAMINE	CAS-No.: 7078-68-5 EC-No.: 230-392-0	100

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a doctor.
First-aid measures after skin contact	 Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of water/ Immediately call a POISON CENTER/doctor. 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.

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First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.
4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Toxic if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

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

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 subs	tance 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	
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 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. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.	
For non-emergency personnel		
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. 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. 	
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.

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.3. Methods and material for containment and cleaning up	
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: 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 Hygiene measures	 Handle empty containers with care because residual vapours are flammable. Avoid contact with skin and eyes. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. 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		
	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations. Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. 	
Incompatible materials Packaging materials	cool. Store locked up.Heat sources.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

No additional information available

8.2. Exposure controls

Appropriate engineering controls

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

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. **Personal protective equipment symbol(s):**



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Eye and face protection

Eye protection:

Chemical goggles or face shield

Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

Respiratory protection Respiratory protection:

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

Environmental exposure controls

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
Colour	: Colourless to yellow.
Appearance	: Clear liquid.
Molecular mass	: 129.25 g/mol
Odour	: ammonical odour.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -50 – -46 °C
Boiling point	: 127 °C
Flammability	: Flammable
	Highly flammable liquid and vapour.
Lower explosion limit	: 0.7 vol %
Upper explosion limit	: 6.3 vol %
Flash point	: 10 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 0.88 mm²/s at 20 °C
Solubility	: Water: 4.01 g/l at 20 °C
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 14 hPa at 20 °C
Vapour pressure at 50°C	: Not available
Density	: 0.754 g/cm³ at 20 °C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

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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. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Toxic if inhaled.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS (7078-68-5)	

Viscosity, kinematic	0.88 mm²/s at 20 °C

11.2. Information on other hazards

Other information

Potential adverse human health effects and : Harmful if swallowed. symptoms

ECTION 12: Ecological information				
12.1. Toxicity				
Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects.			
12.2. Persistence and degradability				
N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS (7078-68-5)				
Persistence and degradability	May cause long-term adverse effects in the environment.			

12.3. Bioaccumulative potential

No additional information available

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available

SECTION 13: Disposal considerations				
3.1. 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

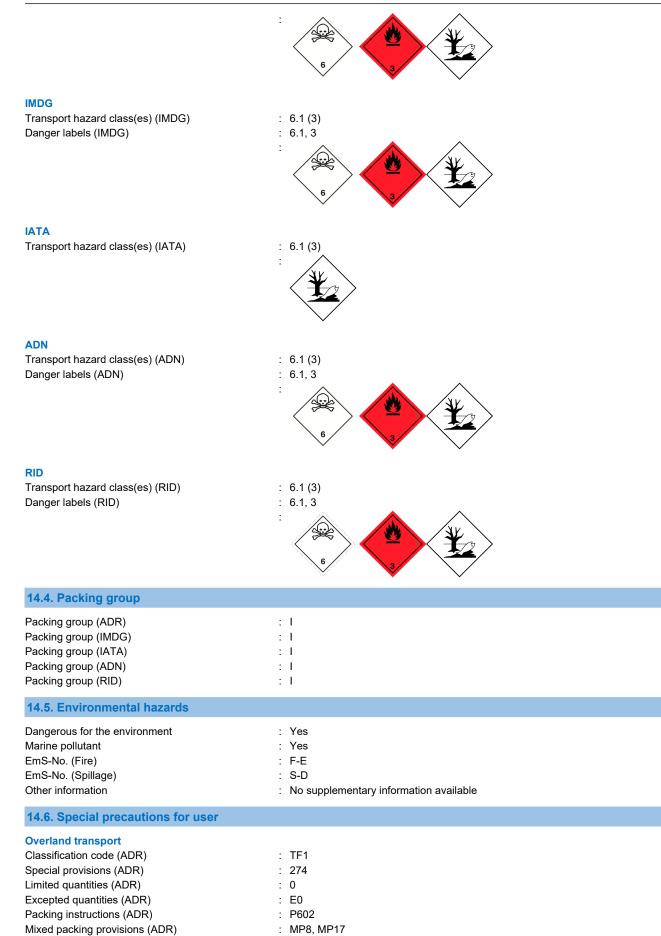
In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number	
UN-No. (ADR)	: UN 3384
UN-No. (IMDG)	: UN 3384
UN-No. (IATA)	: UN 3384
UN-No. (ADN)	: UN 3384
UN-No. (RID)	: UN 3384
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (IMDG)	: TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (IATA)	: Toxic by inhalation liquid, flammable, n.o.s.
Proper Shipping Name (ADN)	: TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (RID)	: TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.
Transport document description (ADR) (ADR)	: UN 3384 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. (N,N-
	DIISOPROPYLETHYLAMINE), 6.1 (3), I, (C/D), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3384 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. (N,N-
	DIISOPROPYLETHYLAMINE), 6.1 (3), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3384 Toxic by inhalation liquid, flammable, n.o.s. (N,N-DIISOPROPYLETHYLAMINE),
	6.1 (3), I, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3384 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S., 6.1 (3), I,
	ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3384 TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S., 6.1 (3), I,
	ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 6.1 (3)		
Danger labels (ADR)	: 6.1, 3		

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Portable tank and bulk container instructions (ADR)	: T20
Portable tank and bulk container special provisions	: TP2
(ADR)	. 11 2
	. 140011
Tank code (ADR)	: L10CH
Tank special provisions (ADR)	: TU14, TU15, TE19, TE21
Vehicle for tank carriage	: FL
Transport category (ADR)	: 1
Special provisions for carriage - Loading, unloading	: CV1, CV13, CV28
and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2, S9, S14
Hazard identification number (Kemler No.)	: 663
Orange plates	
	663
	2204
	3384
Tunnel restriction code (ADR)	: C/D
EAC code	: •3WE
APP code	: A(fl)
-	
Transport by sea	. 074
Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P602
Tank instructions (IMDG)	: T20
Tank special provisions (IMDG)	: TP2, TP13
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: A variety of toxic liquids which present a highly toxic inhalation hazard as well as being
	flammable. Highly toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 132
Air transport	
the second s	: Forbidden
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Transport category (RID) Special provisions for carriage - Loading, unloading		1 CW13, CW28, CW31
and handling (RID)		
Hazard identification number (RID)	:	663

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)				
Reference code	Applicable on			
3(a)	N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS			
3(b)	N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS			
3(c)	N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS			
40.	N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS			

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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

Explosives Precursors Regulation (2019/1148)

Not listed on the Explosives Precursors list (EU)

Drug Precursors Regulation (273/2004)

Not listed on the Drug Precursors list (EU)

National regulations

Germany

Water hazard class (WGK) Chemicals Prohibition Ordinance (ChemVerbotsV)		WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 8904). 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).
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-liist van mutagene stoffen	:	The substance is not listed

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SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
Poland	
Polish National Regulations	: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
	Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text o L. 2020, item 797).
	The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October
	2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
	Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. L. 2014, item 1923).
	Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
	Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
	The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. o 16 September 2016, item 1488)
	Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous
	substances to the environment (J. o L. No. 217, item 2141).
	ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023 item 891)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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

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

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Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

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.