

# MATERIAL SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU) 2015/830

**PRODUCT:** Disinfectant „Bio-Dez”

**Date of filling:** 3003 2020

**Last revision date:** –

**Version:** 1

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## MATERIAL SAFETY DATA SHEET

### Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. PRODUCT IDENTIFIER

**Product name:** Disinfectant „Bio-Dez”

#### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Relevant identified uses:** The product use for disinfection of hands, surfaces, instruments and etc.

**Uses advised against:** Not recommended use to in areas not specified in the instructions for use.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Manufacturer/Supplier:**

ECOCHIM-GRUP SRL

Voitovich str. 21, Otaci, Moldova

Tel. No.: +37378686213

**Electronic mail address of the person, responsible for the safety data sheet:**

E-mail: Ecochim.grup@gmail.com

#### 1.4. EMERGENCY TELEPHONE NUMBER

Poison Control Centre (Austria)

Tel. No.: +43 1 406 4343

Antigif Centrum Centre Antipoisons (Belgium)

Tel. No.: +32 070 245 245

National Toxicology Centre, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov" (Bulgaria)

Tel. No. / fax.: +359 2 9154 233

Poison Control Centre (Croatia)

Tel. No.: +385 1 234 8342

Toxicological Information Centre (Czech Republic)

Tel. No.: +420 224 919 293 / +420 224 915 402

Poison Control Hotline (Denmark)

Tel. No.: +45 82 12 12 12

Poisoning Information Centre (Estonia)

Tel. No.: +372 794 3794 (or 16662 national)

Poison Information Centre (Finland)

Tel. No.: +358 09 471 977

ORFILA (INERIS) (France)

Tel. No.: +33 (0) 1 45 42 59 59

Health Toxicological Information Service (Hungary)

Tel. No.: +36 80 20 11 99

Poison Centre (Iceland)

Tel. No.: +354 543 2222



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National Poisons Information Centre (Ireland)  
Tel. No.: +353 (0)1 809 2566 / +353 (0)1 837 9964

Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)  
Tel. No.: +371 670 42473

Health Emergency Situations Centre of the Ministry of Health, Poison Information Bureau (Lithuania)  
Tel. No.: +370 5 236 20 52, mob.: +370 687 53378

Mater Dei Hospital (Malta)  
Tel. No.: +356 2545 0000

National Poisons Information Centre (NVIC) (Netherlands)  
Tel. No.: +31 (0) 30 274 8888

Mental Health Helpline (Norway)  
Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal)  
Tel. No.: +351 213 303 271

Biroul RSI si Informare Toxicologica (Romania)  
Tel. No.: +40 021 318 3606

National Toxicological Information Centre (NTIC) (Slovakia)  
Tel. No.: +421 2 5477 4166

Toxicology Information Service (Spain)  
Tel. No.: +34 91 562 04 20

Swedish Poisons Information Centre (Sweden)  
Tel. No.: +46 08 331231

Health and Safety Executive (HSE) (United Kingdom)  
Tel. No.: +44 0151 922 9235

## Section 2. HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

Flam. Liq. 2; H225  
Eye Irrit. 2; H319

#### 2.1.2. Additional information:

Full text of H phrases, hazard and EU hazard statements in Section 16.

### 2.2. LABEL ELEMENTS

#### 2.2.1. Label according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



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**Signal word:**Danger.**Hazard statements:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

**Precautionary statements:**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information:**None.**2.3. OTHER HAZARDS**

Not a PBT or vPvB substance or mixture.

**Section 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. SUBSTANCES**

Substance	CAS No.	EC No.	Classification:	Concentration,% v/v
			According EC No. 1272/2008	
Ethanol	64-17-5	200-578-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319 (Eye Irrit. 2; C ≥ 50 %)	≤75.0%
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	270-325-2	Acute Tox. 4; H302 Skin Corr. 1B; H314	≤0.024%
Methylthionium chloride	61-73-4	200-515-2	Acute Tox. 4; H302	≤0.0003%
Glycerol	56-81-5	200-289-5	Not Classified.	≤2.0%
Water	7732-18-5	231-791-2	Not Classified.	to 100%

**NOTE:** The text regarding the risk phrases is provided in Section 16.**3.2. MIXTURES**

Not applicable.

**Section 4. FIRST AID MEASURES****4.1. DESCRIPTION OF FIRST AID MEASURES****General information.** Get medical attention if any discomfort develops.**Following skin contact.**Get medical attention if irritation develops and persists. Rinse skin with water/shower.

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**Following eye contact.** Immediately wash eyes with plenty of water. Get medical attention immediately, if irritation continues.

**Following inhalation.** Move to fresh air. Call a physician if symptoms develop or persist.

**Following ingestion.** Do NOT induce vomiting. Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

**Self-protection of the first aider:** to care for their own safety.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Not available.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

## Section 5. FIREFIGHTING MEASURES

**General fire hazards.** Clear fire area of all non-emergency personnel.

### 5.1. EXTINGUISHING MEDIA

**Suitable extinguishing media.** Water spray, foam (alcohol resistant preferably), dry chemical powder or CO<sub>2</sub>.

**Unsuitable extinguishing media.** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Upon decomposition, this product emits carbon monoxide, carbon dioxide and etc.

### 5.3. ADVICE FOR FIREFIGHTERS

**Special protective equipment for firefighters.** Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**Special firefighting procedures.** Do not breathe fire released materials. Move containers away from fire area, if it can be done without risk. Use water mist cooling unopened containers. Cooling tanks pouring sufficient water and fire go out. Prevent the material from entering the drainage system, surface waters.

## Section 6. ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**For non-emergency personnel.** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

**For emergency responders.** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent contamination of soil and water. Prevent further leakage or spillage if safe to do so.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**Small Spills:** Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

### 6.4. REFERENCE TO OTHER SECTIONS

For personal protection, see Section 8. For waste disposal, see section 13.

## Section 7. HANDLING AND STORAGE



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**7.1. PRECAUTIONS FOR SAFE HANDLING**

**Advice on safe handling.**Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Advice on protection against fire and explosion.** Keep away from heat. Keep away from sources of ignition.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.

**7.3. SPECIFIC END USE(S)**

Not available.

**Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. CONTROL PARAMETERS****Occupational exposure limits.**

GESTIS International Limit Values:

Substance	Ethanol			
	Limit value - Eight hours		Limit value - Short term	
CAS No.	64-17-5			
Country	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	Australia	1000	1880	-
Austria	1000	1900	2000	3800
Belgium	1000	1907	-	-
Canada - Ontario	-	-	1000	-
Canada - Québec	1000	1880	-	-
Denmark	1000	1900	2000	3800
Finland	1000	1900	1300 (1)	2500 (1)
France	1000	1900	5000	9500
Germany (AGS)	200	380	800 (1)	1520 (1)
Germany (DFG)	200	380	800 (1)	1520 (1)
Hungary	-	1900	-	7600
Ireland	-	-	1000 (1)	-
Latvia	-	1000	-	-
Lithuania	500	1000	1000	1900
New Zealand	1000	1880	-	-
Poland	-	1900	-	-
Romania	1000	1900	5000 (1)	9500 (1)
Singapore	1000	1880	-	-



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<b>South Korea</b>	1000	1900	-	-
<b>Spain</b>	-	-	1000	1910
<b>Sweden</b>	500	1000	1000 (1)	1900 (1)
<b>Switzerland</b>	500	960	1000	1920
<b>The Netherlands</b>	-	260	-	1900
<b>USA - NIOSH</b>	1000	1900	-	-
<b>USA - OSHA</b>	1000	1900	-	-
<b>United Kingdom</b>	1000	1920	-	-

**Biological limit values.**No exposure limit value known.**Recommended monitoring procedures.** Follow standard monitoring procedures.**8.2. EXPOSURE CONTROLS****General information:** Do not eat, not drink, not smoke at the workplace. Wash hands before breaks and after work. Provide adequate general and local exhaust ventilation.**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT****General information.** Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.**Eye/face protection.** Wear protective goggles with side-shields according to EN 166.**Skin protection.** Wear protective work clothing.**Hand protection.** When contact is likely, appropriate Nitrile rubber/nitrile latex gloves (EN 374).**Respiratory protection.** General ventilation normally adequate. In case of inadequate ventilation or risk of inhalation of vapour, suitable respiratory equipment (breathing mask). Seek advice from local supervisor (EN 149).**Thermal hazards.** Not applicable.**Hygiene measures.** Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.**8.3. ENVIRONMENTAL EXPOSURE CONTROLS**

Contain spills and prevent releases, and observe national regulations on emissions.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	liquid
COLOUR:	bluish
ODOUR:	like alcohol
ODOUR THRESHOLD:	not available
pH:	not available
MELTING POINT/FREEZING POINT:	not available
INITIAL BOILING POINT AND BOILING RANGE:	not available
FLASH POINT:	not available
EVAPORATION RATE:	not available
FLAMMABILITY (SOLID, GAS):	flammable
UPPER/LOWER FLAMMABILITY:	not available
EXPLOSIVE LIMITS:	not available
VAPOUR PRESSURE:	not available
VAPOUR DENSITY:	not available



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RELATIVE DENSITY:	not available
DENSITY:	not available
SOLUBILITY:	soluble (water)
PARTITION COEFFICIENT (N-OCTANOL/WATER):	not available
AUTO-IGNITION TEMPERATURE:	not available
DECOMPOSITION TEMPERATURE:	not available
VISCOSITY:	not available
EXPLOSIVE PROPERTIES:	not available
OXIDISING PROPERTIES:	not oxidize

### 9.2. OTHER INFORMATION

No additional information.

## Section 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

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

### 10.2. CHEMICAL STABILITY

Stable at normal conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

### 10.4. CONDITIONS TO AVOID

Avoid exposure to moisture. Avoid vapour formation.

### 10.6. INCOMPATIBLE MATERIALS

Strong oxidizing and reducing agents.

### 10.7. HAZARDOUS DECOMPOSITION PRODUCTS

May produce hazardous fumes like carbon monoxide, carbon dioxide and etc.

## Section 11. TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute toxicity:** No information available for the product.

Ethanol; CAS No. 64-17-5:

Acute Oral Toxicity: LD50 – 10470 mg/kg bw (rat);

Acute Inhalation Toxicity: LC50 – 124.7 mg/l/4h air (rat) (vapour);

Acute Dermal Toxicity: LD50 – 17100 mg/kg bw (rabbit).

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; CAS No. 68424-85-1:

Acute Oral Toxicity: LD50 – 280.8 mg/kg bw (rat).

**Skin corrosion/irritation.** Not classified.

**Serious eye damage/eye irritation.** May cause serious eye irritation.

**Respiratory sensitisation.** Not classified.

**Skin sensitisation.** Not expected.

**Germ cell mutagenicity.** Not classified.

**Carcinogenicity.** Not classified.

**Reproductive toxicity.** Not classified.

**Specific target organ toxicity – single exposure.** Not classified.



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**Specific target organ toxicity – repeated exposure.** Not classified.

**Aspiration hazard.** Not classified.

**Other information.** No data available.

### 11.2. OTHER INFORMATION

None.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

Ethanol; CAS No. 64-17-5:

LC50 for freshwater fish: 11200 mg/l/96h (*Salmo gairdneri*);

EC10, LC10 or NOEC for freshwater fish: 250 mg/l/60d;

EC50/LC50 for freshwater invertebrates: 5012 mg/l/48h;

EC50/LC50 for marine water invertebrates: 857 mg/l;

EC10, LC10 or NOEC for freshwater invertebrates: 9.6 mg/l;

EC10, LC10 or NOEC for marine water invertebrates: 79 mg/l;

EC50 for freshwater algae: 275 mg/l;

EC50 for marine water algae: 1900 mg/l;

EC10 or NOEC for freshwater algae: 11.5 mg/l;

EC10 or NOEC for marine water algae: 1580 mg/l.

### 12.2. PERSISTENCE AND DEGRADABILITY

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides biodegradation to be 83% after 10 days.

### 12.3. BIOACCUMULATIVE POTENTIAL

Not expected.

### 12.4. MOBILITY IN SOIL

**Mobility.** No data available.

### 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

Not a PBT or vPvB substance or mixture.

### 12.6. OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

## Section 13. DISPOSAL CONSIDERATION

### 13.1. WASTE TREATMENT METHODS

**Residual waste.** Dispose of contents/container with local/regional/national/international regulations.

**Contaminated packaging.** Not available.

**EU waste code.** Not available.

**Disposal methods/information.** Review federal, state/provincial, and local government requirements prior to disposal.

## Section 14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADNR/IMDG for carriage by vessel/sea and IATA for carriage by air.





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- 14.1. **UN number.** UN1993
- 14.2. **UN proper shipping name.** FLAMMABLE LIQUID, N.O.S.
- 14.3. **Transport hazard class (-es).** 3
- 14.4. **Packing group.** III
- 14.5. **Environmental hazards.** No.
- 14.6. **Special precautions for user.** Before use read the safety instructions in the safety data sheet and emergency procedures.
- 14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.** Not applicable.

## Section 15. REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

– Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

– COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132, 29.5.2015, p. 8–31);

– On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

– COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

– REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products(OJ L 167/1 27.6.2012, p.001-123);

– REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);

– COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

– The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

### 15.2. CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment has not been carried out.

## Section 16. OTHER INFORMATION

### 16.1. INDICATION OF CHANGES

Information contained in the Regulation 1907/2006/EC with the Regulation 2015/830.

**Indication of changes:** –.

Date of filling: 30-03-2020

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### 16.2. FULL TEXT OF HAZARD AND PRECAUTIONARY STATEMENTS

H225 Highly flammable liquid and vapour.



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H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P280 Wear protective gloves/ protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information:** None.

### Abbreviations:

Flam. Liq. 2 – Flammable liquids; Category 2.  
Acute Tox. 4 – Acute Toxicity (oral); Category 4.  
Skin Corr. 1B – Skin corrosion; Category 1B.  
Eye Irrit. 2 – Serious eye irritation; Category 2.

### Acronyms:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.  
IMDG – International Maritime Dangerous Goods.  
IATA – International Air Transport Association.  
IMO – International Maritime Organization.  
vPvB – Very Persistent and Very Bioaccumulative.  
PBT – Persistent, Bioaccumulative and Toxic substance.  
LC50 – Lethal Concentration to 50 % of a test population.  
LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).  
IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).  
CAS – Chemical Abstracts Service number.  
CEN – European Committee for Standardisation.  
STOT – Specific Target Organ Toxicity.  
PNEC(s) – Predicted No Effect Concentration(s).  
ACGIH – Association advancing occupational and environmental health.  
NIOSH – National Institute of Occupational Safety and Health.  
NOEC – No effect concentration.  
MSDS – Material Safety Data Sheet.

### KEY LITERATURE REFERENCES AND SOURCES FOR DATA:

- The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

### Disclaimer

Information is correct to the best of our knowledge at the date of the MSDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provide without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way



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connected with handling, storage, use, or disposal of this product. If the product is use as a component in another product, this MSDS information may not be applicable.

