

DIPHENYLCARBAZONE - Diphenylcarbazone Indicator

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(Salaj)

Safety data sheet according to Regulation (EC) No. 1907/2006

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

1.1. Product identifier.

Code. DIPHENYLCARBAZONE
Product name. Diphenylcarbazone Indicator

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

Intended use. Determination of chloride/salinity in water samples.

1.3. Details of the supplier of the safety data sheet.

Name. Hanna Instruments S.R.L.

Full address. str. Hanna Nr 1
District and Country. 457260 loc. Nusfalau

Romania
Tel. (+40) 260607700
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e-mail address of the competent person.

responsible for the Safety Data Sheet. msds@hanna.ro

1.4. Emergency telephone number.

For urgent inquiries refer to. Emergency Number - International: +(1)-703-527-3887 - UK, London:

+(44)-870-8200418 - CHEMTREC 24 hours/365 days

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2 H225 Highly flammable liquid and vapour. Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour.H319 Causes serious eye irritation.

Precautionary statements:

P210 Keep away from heat.

P243 Take precautionary measures against static discharge.

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

Continue rinsing.

P370+P378 In case of fire: use powder to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

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SECTION 2. Hazards identification. />>

P280 P337+P313 Wear protective gloves / eye protection / face protection. If eye irritation persists: Get medical advice / attention.

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. x = Conc. %. Classification 1272/2008 (CLP).

ETHANOL

CAS. 64-17-5 $50 \le x < 100$

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

EC. 200-578-6 INDEX. 603-002-00-5 Reg. no. 01-2119457610-43

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

For symptoms and effects caused by the contained substances, see chap. 11.

ETHANOL

Irritant effects, respiratory paralysis, Dizziness, narcosis, inebriation, euphoria, Nausea, Vomiting.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

ETHANOL

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at ambient temperatures. Pay attention to flashback. Development of hazardous combustion gases or vapours possible in the event of fire.



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SECTION 5. Firefighting measures. .../>>

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 3

România

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

ROU

Regulatory References:

DFU Deutschland MAK-und BAT-Werte-Liste 2012 **ESP** España INSHT - Límites de exposición profesional para agentes químicos en España 2015 FRA JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 France United Kingdom EH40/2005 Workplace exposure limits **GBR** HUN 50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról Magyarország NLD Nederland Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18

Monitorul Oficial al României 44; 2012-01-19

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SECTION 8. Exposure controls/personal protection.

TLV-ACGIH ACGIH 2016

				ETI	HANOL				
hreshold Limit Valı	ue.								
Type	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
AGW I	DEU	960	500	1920	1000				
MAK I	DEU	960	500	1920	1000				
VLA I	ESP			1910	1000				
VLEP I	FRA	1900	1000	9500	5000				
WEL	GBR	1920	1000						
AK I	HUN	1900		7600					
OEL I	NLD	260		1900			SKIN.		
TLV I	ROU	1900	1000	9500	5000				
TLV-ACGIH				1884	1000				
redicted no-effect	concentra	tion - PNE	C.						
Normal value in fresh water							0,96	mg/l	
Normal value in marine water							0,79	mg/l	
Normal value for fresh water sediment							3,6	mg/kg/	
Normal value for marine water sediment							2,9	d hg/kg/	
Normal value for water, intermittent release							2,75	r hg/l	
Normal value of STP microorganisms							580	mg/l	
Normal value for the food chain (secondary poisoning)							720	mg/kg	
Normal value for the terrestrial compartment							0,36	mg/kg/	
lealth - Derived no-effect level - DNEL / DMEL								d	
	Effects on consumers. Effects						orkers		
Route of exposure	e Acut	e Acı	ıte	Chronic	Chronic	Acute local	Acute	Chroni	Chronic
	local	sys	temic	local	systemic		systemic	c local	systemic
Oral.				VND	87				-
					mg/kg bw/d				
Inhalation.	VND	950)	950	114	1900	VND	1900	950
		mg	/m3	mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
Skin.				VND	206			VND	343
					mg/kg bw/d				mg/kg
									bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS.



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Not available.

Not available.

Not available.

Not available.

Not available.

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The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance liquid Colour orange Odour Alcohol Odour threshold. Not available. pH. 2,5 Melting point / freezing point. Not available. Initial boiling point. 35 °C. Boiling range. Not available. Flash point. °C. 23 Evaporation rate Not available. Flammability (solid, gas) Not available Lower inflammability limit. Not available. Upper inflammability limit. Not available.

Relative density. 0,790

Solubility soluble in 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 **9.2. Other information.**

Lower explosive limit.

Upper explosive limit.

Vapour pressure.

Vapour density

Total solids (250°C / 482°F) 0,70 %

VOC (Directive 2010/75/EC): 99,30 % - 784,50 g/litre. VOC (volatile carbon): 51,73 % - 408,68 g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

ETHANOL

Vapours may form explosive mixture with air.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride (with acids), concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver and nitric acid, silver nitrate, silver nitrate and ammonia, silver oxide and ammonia, strong oxidising agents, nitrogen dioxide. Can react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, oxiranes, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms an explosive mixture with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHANOL



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SECTION 10. Stability and reactivity. .../>>

Avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

ETHANOL

Rubber, various plastics.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

ETHANOL

Acute oral toxicity: Symptoms: Nausea, Vomiting - Acute inhalation toxicity: Symptoms: Possible damages:, mucosal irritations absorption - Eye irritation Rabbit Result: Eye irritation. Causes serious eye irritation - Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative - In vitro mammalian cell gene mutation test Mouse lymphoma test Result: negative.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:

LC50 (Inhalation - mists / powders) of the mixture:

LD50 (Oral) of the mixture:

LD50 (Dermal) of the mixture:

Not classified (no significant component).

Not classified (no significant component).

Not classified (no significant component).

ETHANOL

LD50 (Oral). > 5000 mg/kg Rat

LC50 (Inhalation). 120 mg/l/4h Pimephales promelas

SKIN CORROSION / IRRITATION.

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION.

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY.

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE.

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE.

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.



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SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.

ETHANOL

LC50 - for Fish. 14200 mg/l/96h Pimephales promelas EC50 - for Crustacea. 14221 mg/l/48h Daphnia magna Chronic NOEC for Crustacea. 9,6 mg/l Daphnia magna

12.2. Persistence and degradability.

FTHANOL

Solubility in water. 1000 - 10000 mg/l

Rapidly biodegradable.

12.3. Bioaccumulative potential.

ETHANOL

Partition coefficient: n-octanol/water. -0,35

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

ETHANOL

No interference with wastewater treatment plants are to be expected when used properly. Discharge into the environment must be avoided.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, IATA: 1170

14.2. UN proper shipping name.

ADR / RID: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IMDG: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IATA: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)



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SECTION 14. Transport information./>>

14.3. Transport hazard class(es).

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



14.4. Packing group.

ADR / RID, IMDG, IATA:

14.5. Environmental hazards.

NO ADR / RID: IMDG: NO IATA: NO

14.6. Special precautions for user.

ADR / RID:

HIN - Kemler: 33

Special Provision: -

IMDG:

EMS: F-E, S-D

IATA:

Limited Quantities: 1 L Cargo: Maximum quantity: 60 L Maximum quantity: 5 L Pass.: A3. A58. A180

Special Instructions:

Limited Quantities: 1 L Tunnel restriction code: (D/E)

> Packaging instructions: 364 Packaging instructions: 353

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC:

P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point.

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH).

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

ΕN



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SECTION 15. Regulatory information. .../>>

WGK 2: Hazard to waters

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Eye Irrit. 2 Eye irritation, category 2
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition



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SECTION 16. Other information. .../>>

- ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

ΕN