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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. HI93751-0 Sulfate Reagent Product name.

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

Intended use. Determination of Sulfate in Water Samples.

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

Hanna Instruments S.R.L. Name

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

> Romania (+40) 260607700 Tel. Fax. (+40) 260607700

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:

Toxic if swallowed. Acute toxicity, category 3 Acute toxicity, category 4 Harmful if inhaled.

Eye irritation, category 2 Causes serious eye irritation.

2.2. Label elements.

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

Hazard pictograms:



Danger Signal words:

Hazard statements:

Toxic if swallowed. H332 Harmful if inhaled.

H319 Causes serious eye irritation.

Precautionary statements:

Avoid breathing dust, fume, gas, mist, vapours, spray.

P280 Wear protective gloves, protective clothing, eye protection and 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.

Call a POISON CENTER or doctor, if you feel unwell. P312 P337+P313 If eye irritation persists: Get medical advice / attention.



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SECTION 2. Hazards identification.

BARILIM CHI ORIDE DIHYDRATE Contains:

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).

CITRIC ACID

CAS. 77-92-9 50 ≤ x < 100 Eye Irrit. 2 H319

FC 201-069-1

INDEX.

BARIUM CHLORIDE DIHYDRATE CAS. 10326-27-9

30 ≤ x < 50 Acute Tox. 3 H301, Acute Tox. 4 H332 FC 233-788-1

INDEX. 056-004-00-8

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. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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.

CITRIC ACID

Irritant effects, Pain, Bloody vomiting.

BARIUM CHLORIDE DIHYDRATE

Conjunctivitis, Cough, respiratory paralysis, Shortness of breath, Dermatitis, cardiac arrest, death, irritant effects. The following applies to soluble barium compounds in general: after swallowing: mucosal irritation, nausea, salivation, vomiting, dizziness, pain, colics, and diarrhoea. Systemic effects include: cardiac dysrhythmias, bradycardia (subdued cardiac activity), rise in blood pressure, shock and circulatory collapse as well as muscular rigidity.

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.



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

BARIUM CHLORIDE DIHYDRATE

Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Hydrogen chloride gas.

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.

If there are no contraindications, spray powder with water to prevent the formation of dust.

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.

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 and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 6.1C

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail 2014. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18

ΕN



Threshold Limit Value.

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SECTION 8. Exposure controls/personal protection. .../

POL POISKA ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r

SWE Sverige Occupational Exposure Limit Values, AF 2011:18

EU OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

TLV-ACGIH ACGIH 2016

CITRIC ACID									
Predicted no-effect concentration - PNEC.									
Normal value in fresh water	0,44	mg/l							
Normal value in marine water	0,044	mg/l							
Normal value for fresh water sediment	34,6	mg/kg/d							
Normal value for marine water sediment	3,46	mg/kg/d							
Normal value of STP microorganisms	1000	mg/l							
Normal value for the terrestrial compartment	33,1	mg/kg/d							

BARIUM CHLORIDE DIHYDRATE

nresnoia Limit v									
Туре	Country	TW/ mg/m	A/8h n3 ppm	STEL/ mg/m3	15min ppm				
MAK	AUS	0,5	ю рр	g/0	PP				
W u c	7100	-,-					Ва		
VLEP	BEL	0,5							
							Ва		
MAK	CHE	0,5					_		
MANZ	DELL	0,5					Ва		
MAK	DEU	0,5					Ва		
TLV	DNK	0,5					Ба		
							Ва		
VLA	ESP	0,5							
\# ED	ED.4						Ва		
VLEP	FRA	0,5					Ва		
WEL	GBR	0,5					Ба		
	02.1						Ва		
AK	HUN	0,5							
~=.							Ва		
OEL	IRL	0,5					Ва		
VLEP	ITA	0,5					Ба		
V	1171	-,-					Ва		
MAC	NLD	0,5							
	501						Ва		
NDS	POL	0,5					Ва		
MAK	SWE	0,5					Ба		
W U C	OWE	-,-					Ва		
OEL	EU	0,5							
							Ва		
TLV-ACGIH		0,5					D-		
redicted no-effe	ct concenti	ation -	PNEC				Ва		
Normal value in			i iteo.				0,174	mg/l	
Normal value for			diment				908	mg/kg/d	
Normal value of							94,3	mg/l	
Normal value for							315	mg/kg/d	
ealth - Derived r									
			consumers.			Effects on v	vorkers		
Route of expos	sure Acut	e local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				VND	3,7				
Inhalation				VND	mg/kg bw/d 2,6			VND	8,8
Inhalation.					mg/m3				mg/m3
Skin.				VND	25,9			VND	43,2

mg/kg bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

mg/kg bw/d





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SECTION 8. Exposure controls/personal protection. .../>

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

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.

Colour white Odour odourless Odour threshold. Not available 2.0 -2.4 pH. 14 g/L Melting point / freezing point. Not available. Initial boiling point. Not applicable Boiling range Not available. Flash point. Not applicable Evaporation rate Not available. Flammability (solid, gas) Not available. Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit Upper explosive limit. Not available. Vapour pressure. Not available. Not available. Vapour density Relative density. soluble in water Solubility 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 available

9.2. Other information.

 Total solids (250°C / 482°F)
 100,00 %

 VOC (Directive 2010/75/EC) :
 0

 VOC (volatile carbon) :
 0

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

10.2. Chemical stability.

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

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SECTION 10. Stability and reactivity./>>

10.3. Possibility of hazardous reactions.

The powders are potentially explosive when mixed with air.

CITRIC ACID

Violent reactions possible with: Metals, Oxidizing agents, Bases, Reducing agents.

BARIUM CHLORIDE DIHYDRATE

Risk of explosion with: furan-2-percarbonic acid, Violent reactions possible with: halogen-halogen compounds, Strong oxidizing agents, strong reducing agents, acids.

10.4. Conditions to avoid.

Avoid environmental dust build-up.

10.5. Incompatible materials.

CITRIC ACID

Metals.

10.6. Hazardous decomposition products.

Information not available.

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.

BARIUM CHLORIDE DIHYDRATE

Acute inhalation toxicity, Symptoms: mucosal irritations, Cough, Shortness of breath, absorption.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component).

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

LD50 (Oral) of the mixture: 241 mg/kg

LD50 (Dermal) of the mixture: Not classified (no significant component).

CITRIC ACID

LD50 (Oral). 3000 mg/kg Rat LD50 (Dermal). > 2000 mg/kg

BARIUM CHLORIDE DIHYDRATE

LD50 (Oral). 118 mg/kg Rat

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.



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SECTION 11. Toxicological information.

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.

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.

CITRIC ACID

LC50 - for Fish. 440 mg/l/96h Leuciscus idus

BARIUM CHLORIDE DIHYDRATE

LC50 - for Fish. > 3,5 mg/l/96h Danio rerio

12.2. Persistence and degradability.

CITRIC ACID

Solubility in water. > 10000 mg/l

Rapidly biodegradable.

12.3. Bioaccumulative potential.

CITRIC ACID

Partition coefficient: n-octanol/water. -1,64 Log Kow

BCF. 3,2

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.

CITRIC ACID

Harmful effect due to pH shift. Discharge into the environment must be avoided.

BARIUM CHLORIDE DIHYDRATE

Formation of health-hazardous mixtures possible with water. Endangers drinking-water supplies if allowed to enter soil or water.

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: 1564

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SECTION 14. Transport information. .../>>

14.2. UN proper shipping name.

BARIUM COMPOUND, N.O.S. MIXTURE BARIUM COMPOUND, N.O.S. MIXTURE BARIUM COMPOUND, N.O.S. MIXTURE ADR / RID: IMDG: IATA:

14.3. Transport hazard class(es).

Class: 6.1 Label: 6.1

IMDG: Class: 6.1 Label: 6.1

IATA: Class: 6.1 Label: 6.1



14.4. Packing group.

ADR / RID, IMDG, IATA:

14.5. Environmental hazards.

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user.

HIN - Kemler: 60 Limited Quantities: 5 kg Tunnel restriction code: (E)

Special Provision: -Limited Quantities: 5 kg Maximum quantity: 200 Kg IMDG: EMS: F-A, S-A IATA:

Packaging instructions: 677 Cargo: Maximum quantity: 100 Kg Packaging instructions: 670 Pass.:

A3, A82 Special Instructions:

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: None.

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

None.

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).

None.

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

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.

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

WGK 1: Low 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:

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Eye Irrit. 2 Eye irritation, category 2
H301 Toxic if swallowed.
H332 Harmful if inhaled.
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 (EC) 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
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)

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

- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 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.

Changes to previous review: The following sections were modified:

08 / 09 / 11.