

Section 1. Identification of the substance or mixture and of the Company / Undertaking**1.1. Product identification:**Product name: **Test Mg tit. A**

Commercial code: A3050699

UFI: 4HE0-67QJ-K00A-SNFV

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

Description / Uses: Determine the Mg value in fresh or sea water. Retail product.

Uses advised against: All uses other than those indicated above.

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

CROCI S.p.A.

Via S. Alessandro, 8 - 21040 Castronno (VA) – ITALY. Tel. +39 0332 870860 Fax. +39 0332 462439

Competent person responsible for the safety data sheet: Quality department

e-mail Technical Responsible: giuseppe.dangelo@croci.net. Phone number: +39 0332 870860

1.4. Emergency Phone Number:

Austria Poison Information Center (AT): + 43- (0) 1-406 43 43

Belgium Poison Control Center (BE): +32 70 245 245

Croatia Poison Control (CR): +385 1 2348 342

Czech Republic Poison Control (CS): +420 224 919 293, +420 224 915 402

Denmark Direct Telephone Line Poison Control (DK): +45 82 12 12 12

Estonia Poison Control (ET): 16662, (+372) 626 93 90

Finland Poison Information Center (FI): +358 9 471 977

France ORFILA (FR): + 01 45 42 59 59

Germany Berlin Poison Center (DE): +49 030 30686 790 (24-hour assistance, Consulting in German and English)

Greece Poison Information Center (EL): (0030) 2107793777

Hungary Poison Information Service (HU): (+ 36-80) 201-199 Islanda Poison Information Center: 543 2222

Italia Centro Antiveleni, Milano (IT): +39 02 6610 1029 Lettonia Poison Information Center (LV): +371 67042473

Lituania Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378 Paesi Bassi National Poisons

Information Center (NVIC): 030-274 8888 Norvegia Poison Center: 22 59 13 00

Portogallo Centro Informativo Antiveleni (PT): +351 21 330 3284

Spagna Centro Informativo Antiveleni (ES): +34 91 562 04 20 Svezia 112 – ask for Poisons Information

Section 2. Hazards Identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008.

Skin Irrit. (Category 2)	H315	Causes skin irritation
Serious eye damage/eye irritation (Category 1)	H318	Causes serious eye irritation

Any additional information regarding the risks to health and / or the environment are given in sect. 11 and 12 of this sheet.

Hazard classification and indications:

2.2. **Labeling elements:**

Labelling according Regulation (EC) No 1272/2008.

Pictogram:



Signal word: DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation

Precautionary Statements:

P264 Wash hands thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P310 Immediately call a POISON CENTER or doctor/physician.

Contains: EDTA Tetrasodium

2.3. **Other hazards:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3. Composition / Information on the ingredients

3.1. **Substances:** Not applicable

3.2. **Mixtures:**

Mixture made by the following substances:

Name of substance	x = Conc. %	Classification acc. to GHS
TRIETHANOLAMINE CAS 102-71-6 CE 203-049-8 INDEX - Nr. Reg. 01-2119486482-31-XXXX	$40 \leq x \leq 50$	
EDTA, TETRASODIUM CAS 64-02-8 CE 200-573-9 INDEX 607-428-00-2	$10 \leq x \leq 12$	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315
EDTA TRISODIUM SALT HYDRATE CAS 85715-60-2 CE 205-758-8 INDEX -	$5 \leq x \leq 10$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

For full text of abbreviations: see SECTION 16.

Further information:

Section 4. First aid measures

4.1 Description of first aid measures:

In case of accident or if you feel unwell, consult your doctor (show him the label if possible). In case of shortness of breath, give oxygen. Make sure medical personnel are aware of the materials involved, and take the necessary precautions to protect themselves.

EYES: wash immediately with plenty of water for at least 15 minutes and call a doctor immediately.

SKIN: remove clothing immediately and wash skin with soap and water. Get medical attention if irritation occurs.

INGESTION: Rinse mouth with plenty of water. If vomiting occurs, keep the head down to prevent it from entering the lungs. Consult a physician.

INHALATION: take the subject to fresh air and keep him at rest. If breathing stops or is difficult, give artificial respiration taking appropriate precautions for the rescuer. Consult a physician.

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

No specific information on the symptoms and effects caused by the product is known.

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

Information is not available.

Section 5. Fire-fighting measures

5.1. Extinguishing media:

Suitable extinguishing media:

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and nebulized water.

Unsuitable extinguishing media

No one in particular.

5.2. Special hazards arising from the substance or mixture:

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products.

TRIETHANOLAMINE

Carbon oxides. NOx nitrogen oxides.

5.3. Recommendations for those involved in extinguishing fires:

GENERAL INFORMATION

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EQUIPMENT

Normal firefighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Stop the leak if there is no danger.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for the workers and for emergency interventions.

6.2. Environmental precautions:

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleaning up:

Suck up the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Additional information

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

Section 7. Handling and storage

7.1. Precautions for safe handling:

Handle the product after consulting all the sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use. Separate work clothing from civilian clothing.

7.2. Conditions for safe storage, including any incompatibilities:

Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, checking section 10.

7.3. Specific end uses:

Information not available.

Section 8. Exposure controls/personal protection

8.1. Exposure limit values:

Normative requirements:

TLV-ACGIH		ACGIH 2016			
TRIETHANOLAMINE					
Valore limite di soglia					
Type	Stato	TWA/8	STEL/15mi		
		h	ppm	nmg/m3	ppm
		mg/m3			
TLV-ACGIH		5			irrt cute e oclr
Predicted No Effect Concentration on the Environment - PNEC					

Reference value in fresh water	0,32	mg/l
Reference value in sea water	0,032	mg/l
Reference value for sediments in fresh water	1,7	mg/kg g
Reference value for sediments in sea water	0,17	mg/kg g
Reference value for the terrestrial compartment	0,151	mg/kg g

Health - Derived level of no effect - DNEL / DMEL

Acute route exposure	Effects on consumer			Effects on workers			
	Acute premises	Chronic premises	Systemic chronic	Acute premises	Acute premises	Chronic premises	Systemic chronic
Oral		VND	13 mg/kg/d				
Inhalation mg/m ³		1,25 mg/m ³	1,25 mg/m ³			5 mg/m ³	5
Dermal mg/kg/d		VND	3,1 mg/kg/d			VND	6,3

Legend:

(C) = CEILING ; INALAB = Inhalable fraction; RESPIR = Breathable fraction; TORAC = Thoracic fraction.
VND = hazard identified but no DNEL / PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure control:

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local exhaust.

For the choice of personal protective equipment, if necessary, seek advice from your chemical suppliers. Personal protective equipment must bear the CE mark which certifies their compliance with current regulations.

Provide an emergency shower with face and eye basin.

HAND PROTECTION

Protect hands with category III work gloves (ref. Standard EN 374).

For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and mode of use.

SKIN PROTECTION

Wear category II professional long-sleeved work clothes and safety footwear (ref. Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear a hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit

the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137 standard) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment should be controlled for compliance with environmental protection legislation.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical:

Physical state clear liquid

Yellow-green color

Odor Not available

Odor threshold Not available

pH Not available

Melting or freezing point Not applicable

Initial boiling point Not available

Boiling range Not available

Flash point Not applicable

Evaporation rate Not available

Flammability of solids and gases Not available

Lower flammability limit Not available

Upper flammability limit Not available

Lower explosive limit Not applicable

Upper explosive limit Not applicable

Vapor pressure Not available

Vapor density Not available

Relative density 1.16

Solubility 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

Oxidizing properties Not available

9.2. Other information:

Total solids (250 ° C / 482 ° F) 23.60%

VOC (Directive 2010/75 / EC): 0

VOC (volatile carbon): 0

Explosion hazard No.

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 under normal conditions of use and storage.

10.3. Possibility of hazardous reactions:

Under normal conditions of use and storage no dangerous reactions are foreseeable.

10.4 Conditions to avoid:

None in particular. However, follow the usual precautions against chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products:

Information not available.

Section 11. Toxicological information

Metabolism, kinetics, mechanism of action and other information Information not available

Information on likely routes of exposure Information not available

Delayed and immediate effects and chronic effects from short and long term exposure

Information not available

Interactive effects Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: 18.8 mg / l

LD50 (Oral) of the mixture:> 2000 mg / kg

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

TRIETHANOLAMINE

Value: = 1.8 mg / m³

For. of the test: 8 h

LD50 (Oral)> 2000 mg / kg (rat)

LD50 (Dermal)> 2000 mg / kg (rabbit)

TETRASODIC EDTA

LD50 (Oral) 2000 mg / kg rat

SKIN CORROSION / SKIN IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

It does not meet the classification criteria for this hazard class

MUTAGENICITY ON GERMINAL CELLS

It does not meet the classification criteria for this hazard class

CARCINOGENICITY

It does not meet the classification criteria for this hazard class

REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

It does not meet the classification criteria for this hazard class

Section 12. Ecological information**12.1 Toxicity:**

TRIETHANOLAMINE

LC50 - Fish > 10000 mg / l / 96h

EC50 - Crustaceans > 600 mg / l / 48h

EC50 - Algae / Aquatic Plants 512 mg / l / 72h.

12.2 Persistence and degradability:

TRIETHANOLAMINE

Quickly degradable

12.3 Bio accumulative potential:

TRIETHANOLAMINE

little bioaccumulative.

12.4 Mobility in the soil:

TRIETHANOLAMINE

the product has very high mobility potential

12.5 Results of PBT and vPvB assessment:

The substances in the mixture do not meet the PBT/vPvB criteria according the REACH annex XIII

12.6 Other adverse effects:

Information not available

Section 13. Disposal considerations**13.1. Waste treatment methods:**

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be evaluated according to the laws in force.

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

Section 14. Transport information

The product is not included in the scope of the regulations on the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.1. **UN number:** Na

14.2. **UN proper shipping name:** Na

14.3. **Transport hazard class(es):** Na

14.4. **Packing group:** Na

14.5. **Environmental hazards:** Na

14.6. **Special precautions for users:** Na

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC code:** Not relevant information

Section 15. Regulatory information**15.1. Standards and legislation on health, safety and environment specific for the substance or mixture:**

Seveso Category - Directive 2012/18 / EC: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006
Product

Point 3

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH) None

Substances subject to export notification obligation Reg. (EC) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for the following contained substances:

Triethanolamine.

Section 16. Other information

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

- Acute Tox. 4** Acute toxicity, category 4
Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
STOT SE 3 Specific target organ toxicity - single exposure, category 3
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the international transport of dangerous goods by train

- TLV: Threshold Limit Value
- TLV CEILING: Concentration which must not be exceeded during any moment of occupational exposure.
- TWA STEL: Short term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 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
 - IFA GESTIS website
 - ECHA Agency website
 - Database of SDS models of chemical substances - Ministry of Health and National Institute of Health

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Section 1. Identification of the substance or mixture and of the Company / Undertaking**1.1. Product identification:**Product name: **Test Mg ind. B**

Commercial code: A3050699

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

Description / Uses: Determine the Mg value in fresh or sea water. Retail product.

Uses advised against: All uses other than those indicated above.

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

CROCI S.p.A.

Via S. Alessandro, 8 - 21040 Castronno (VA) – ITALY. Tel. +39 0332 870860 Fax. +39 0332 462439

Competent person responsible for the safety data sheet: Quality department

e-mail Technical Responsible: giuseppe.dangelo@croci.net. Phone number: +39 0332 870860

1.4. Emergency Phone Number:

Austria Poison Information Center (AT): + 43- (0) 1-406 43 43

Belgium Poison Control Center (BE): +32 70 245 245

Croatia Poison Control (CR): +385 1 2348 342

Czech Republic Poison Control (CS): +420 224 919 293, +420 224 915 402

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Estonia Poison Control (ET): 16662, (+372) 626 93 90

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Portogallo Centro Informativo Antiveleni (PT): +351 21 330 3284

Spagna Centro Informativo Antiveleni (ES): +34 91 562 04 20 Svezia 112 – ask for Poisons Information

Section 2. Hazards Identification**2.1. Classification of the substance or mixture**

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

2.2. Labeling elements:

Labeling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Pictogram: None**Signal word:** None**Hazard Statements:** None**Precautionary Statements:** None

2.3. Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3. Composition / Information on the ingredients

3.1. **Substances:** Not applicable

3.2. **Mixtures:**

The product does not contain substances classified as hazardous to health or the environment pursuant to the provisions of Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantities that require a declaration.

Further information:

Section 4. First aid measures

4.1 **Description of first aid measures:**

Not specifically necessary. In any case, compliance with the rules of good industrial hygiene is recommended.

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

No specific information on symptoms and effects caused by the product is known.

4.3. **Indication of any immediate medical attention and special treatment:**

Treat symptomatically.

In the event of an accident or discomfort, consult a doctor immediately.

Section 5. Fire-fighting measures

5.1. **Extinguishing media:**

Suitable extinguishing media:

Extinguish with carbon dioxide, foam, powder and nebulized water.

Unsuitable extinguishing media

No one in particular.

5.2. **Special hazards arising from the substance or mixture:**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products. The product is combustible and, when the powders are dispersed in the air in sufficient concentrations and in the presence of an ignition source, it can give explosive mixtures with the air. The fire can develop or be further fueled by the solid, possibly escaping from the container, when it reaches high temperatures or by contact with ignition sources.

5.3. **Recommendations for those involved in extinguishing fires:**

GENERAL INFORMATION

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which

must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EQUIPMENT

Normal firefighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid the formation of dust by spraying the product with water if there are no contraindications.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for the workers and for emergency interventions.

6.2. Environmental precautions:

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleaning up:

Dike with earth or inert material. Collect most of the material and eliminate the residue with jets of water. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Additional information

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

Section 7. Handling and storage

7.1. Precautions for safe handling:

Handle the product after consulting all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities:

Keep the product in clearly labeled containers. Keep containers away from any incompatible materials, checking section 10.

7.3. Specific end uses:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8. Exposure controls/personal protection

8.1. Exposure limit values:

Information not available

8.2. Exposure control:

It is recommended to consider in the risk assessment process the occupational exposure limit values provided by the ACGIH for inert dusts not otherwise classified (PNOC respirable fraction: 3 mg / mc; PNOC inhalable fraction: 10 mg / mc). If these limits are exceeded, it is recommended to use a type P filter whose class (1, 2 or 3) must be chosen based on the outcome of the risk assessment.

Observe the usual safety measures when handling chemicals.

HAND PROTECTION

Unnecessary.

SKIN PROTECTION

Unnecessary.

EYE PROTECTION

Unnecessary.

RESPIRATORY PROTECTION

We recommend the use of a type P filtering face mask whose class (1, 2 or 3) and actual need, must be defined on the basis of the outcome of the risk assessment (ref. Standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical:

Physical state powder

Red - purple color

Characteristic odor

Odor threshold Not available

pH Not available

Melting or freezing point Not available

Initial boiling point Not available

Boiling range Not available

Flash point Not available

Evaporation rate Not available

Flammability of solids and non-flammable gases

Lower flammability limit Not available

Upper flammability limit Not available

Lower explosive limit Not available

Upper explosive limit Not available

Vapor pressure Not available

Vapor density Not available

Relative density Not available

Solubility Not available

Partition coefficient: n-octanol / water: Not available

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Not available

Explosive properties not applicable

Oxidizing properties not applicable

9.2. Other information:

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 under normal conditions of use and storage.

10.3. Possibility of hazardous reactions:

Dusts are potentially explosive when mixed with air.

10.4. Conditions to avoid:

Avoid the accumulation of dust in the environment.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products:

Carbon oxides.

Section 11. Toxicological information

There are no known episodes of damage to health due to exposure to the product. In any case, it is recommended to operate in compliance with the rules of good industrial hygiene.

11.1 Information on toxicological effects:**Metabolism, kinetics, mechanism of action and other information**

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects and chronic effects from short and long term exposure

Information not available

Interactive effects Information not available**ACUTE TOXICITY**

LC50 (Inhalation) of the mixture: Not classified (no relevant component)

LD50 (Oral) of the mixture: Not classified (no relevant component)

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

SODIUM CHLORIDE

LD50 (Oral) > 2000 mg / kg

SKIN CORROSION / SKIN IRRITATION

It does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION

It does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITIZATION

It does not meet the classification criteria for this hazard class

MUTAGENICITY ON GERMINAL CELLS

It does not meet the classification criteria for this hazard class

CARCINOGENICITY

It does not meet the classification criteria for this hazard class

REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

It does not meet the classification criteria for this hazard class

Section 12. Ecological information

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated the soil or vegetation.

12.1 Toxicity:

Information not available.

12.2 Persistence and degradability:

Information not available.

12.3 Bio accumulative potential:

Information not available

12.4 Mobility in the soil:

Information not available.

12.5 Results of PBT and vPvB assessment:

The substances in the mixture do not meet the PBT/vPvB criteria according the REACH annex XIII

12.6 Other adverse effects:

Information not available

Section 13. Disposal considerations**13.1. Waste treatment methods:**

Reuse if possible. The residues of the product as such are to be considered special non-hazardous waste.

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

Section 14. Transport information

The product is not included in the scope of the regulations on the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.1. **UN number:** Na

14.2. **UN proper shipping name:** Na

14.3. **Transport hazard class(es):** Na

14.4. **Packing group:** Na

14.5. **Environmental hazards:** Na

14.6. **Special precautions for users:** Na

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC code:** Not relevant information

Section 15. Regulatory information**15.1. Standards and legislation on health, safety and environment specific for the substance or mixture:**

Seveso Category - Directive 2012/18 / EC: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Product: None

Substances in Candidate List (Art. 59 REACH):

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH): None

Substances subject to export notification obligation Reg. (EC) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls: Information not available

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

Section 16. Other information

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which must not be exceeded during any moment of occupational exposure.
- TWA STEL: Short term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
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7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)

11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
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 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 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
 - IFA GESTIS website
 - ECHA Agency website
 - Database of SDS models of chemical substances - Ministry of Health and National Institute of Health

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Section 1. Identification of the substance or mixture and of the Company / Undertaking**1.1. Product identification:**Product name: **Test Mg reag. C**

Commercial code: A3050699

UFI: 8QE0-773C-600A-3AN0

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

Description / Uses: Determine the Mg value in fresh or sea water. Retail product.

Uses advised against: All uses other than those indicated above.

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

CROCI S.p.A.

Via S. Alessandro, 8 - 21040 Castronno (VA) – ITALY. Tel. +39 0332 870860 Fax. +39 0332 462439

Competent person responsible for the safety data sheet: Quality department

e-mail Technical Responsible: giuseppe.dangelo@croci.net. Phone number: +39 0332 870860

1.4. Emergency Phone Number:

Austria Poison Information Center (AT): + 43- (0) 1-406 43 43

Belgium Poison Control Center (BE): +32 70 245 245

Croatia Poison Control (CR): +385 1 2348 342

Czech Republic Poison Control (CS): +420 224 919 293, +420 224 915 402

Denmark Direct Telephone Line Poison Control (DK): +45 82 12 12 12

Estonia Poison Control (ET): 16662, (+372) 626 93 90

Finland Poison Information Center (FI): +358 9 471 977

France ORFILA (FR): + 01 45 42 59 59

Germany Berlin Poison Center (DE): +49 030 30686 790 (24-hour assistance, Consulting in German and English)

Greece Poison Information Center (EL): (0030) 2107793777

Hungary Poison Information Service (HU): (+ 36-80) 201-199 Islanda Poison Information Center: 543 2222

Italia Centro Antiveleni, Milano (IT): +39 02 6610 1029 Lettonia Poison Information Center (LV): +371 67042473

Lituania Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378 Paesi Bassi National Poisons

Information Center (NVIC): 030-274 8888 Norvegia Poison Center: 22 59 13 00

Portogallo Centro Informativo Antiveleni (PT): +351 21 330 3284

Spagna Centro Informativo Antiveleni (ES): +34 91 562 04 20 Svezia 112 – ask for Poisons Information

Section 2. Hazards Identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008.

Skin Irrit. (Category 2)	H315	Causes skin irritation
Serious eye damage/eye irritation (Category 1)	H318	Causes serious eye irritation

Any additional information regarding the risks to health and / or the environment are given in sect. 11 and 12 of this sheet.

Hazard classification and indications:

2.2. **Labeling elements:**

Labelling according Regulation (EC) No 1272/2008.

Pictogram:



Signal word: DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation

Precautionary Statements:

P264 Wash hands thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P310 Immediately call a POISON CENTER or doctor/physician.

Contains: EDTA Tetrasodium

2.3. **Other hazards:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3. Composition / Information on the ingredients

3.1. **Substances:** Not applicable

3.2. **Mixtures:**

Mixture made by the following substances:

Name of substance	x = Conc. %	Classification acc. to GHS
TRIETHANOLAMINE CAS 102-71-6 CE 203-049-8 INDEX - Nr. Reg. 01-2119486482-31-XXXX	$40 \leq x \leq 50$	
EDTA, TETRASODIUM CAS 64-02-8 CE 200-573-9 INDEX 607-428-00-2	$5 \leq x \leq 10$	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315
EDTA TRISODIUM SALT HYDRATE CAS 85715-60-2 CE 205-758-8 INDEX -	$2 \leq x \leq 5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

For full text of abbreviations: see SECTION 16.

Further information:

Section 4. First aid measures

4.1 Description of first aid measures:

In case of accident or if you feel unwell, consult your doctor (show him the label if possible). In case of shortness of breath, give oxygen. Make sure medical personnel are aware of the materials involved, and take the necessary precautions to protect themselves.

EYES: wash immediately with plenty of water for at least 15 minutes and call a doctor immediately.

SKIN: remove clothing immediately and wash skin with soap and water. Get medical attention if irritation occurs.

INGESTION: Rinse mouth with plenty of water. If vomiting occurs, keep the head down to prevent it from entering the lungs. Consult a physician.

INHALATION: take the subject to fresh air and keep him at rest. If breathing stops or is difficult, give artificial respiration taking appropriate precautions for the rescuer. Consult a physician.

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

No specific information on the symptoms and effects caused by the product is known.

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

Information is not available.

Section 5. Fire-fighting measures

5.1. Extinguishing media:

Suitable extinguishing media:

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and nebulized water.

Unsuitable extinguishing media

No one in particular.

5.2. Special hazards arising from the substance or mixture:

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products.

TRIETHANOLAMINE

Carbon oxides. NOx nitrogen oxides.

5.3. Recommendations for those involved in extinguishing fires:

GENERAL INFORMATIONS

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EQUIPMENT

Normal firefighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Stop the leak if there is no danger.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for the workers and for emergency interventions.

6.2. Environmental precautions:

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleaning up:

Suck up the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Additional information

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

Section 7. Handling and storage

7.1. Precautions for safe handling:

Handle the product after consulting all the sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use. Separate work clothing from civilian clothing.

7.2. Conditions for safe storage, including any incompatibilities:

Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, checking section 10.

7.3. Specific end uses:

Information not available.

Section 8. Exposure controls/personal protection

8.1. Exposure limit values:

Normative requirements:

TLV-ACGIH		ACGIH 2016			
TRIETHANOLAMINE					
Valore limite di soglia					
Type	Stato	TWA/8	STEL/15mi		
		h	nmg/m3	ppm	ppm
		mg/m3			
TLV-ACGIH		5			irrt cute e oclr
Predicted No Effect Concentration on the Environment - PNEC					

Reference value in fresh water	0,32	mg/l
Reference value in sea water	0,032	mg/l
Reference value for sediments in fresh water	1,7	mg/kg g
Reference value for sediments in sea water	0,17	mg/kg g
Reference value for the terrestrial compartment	0,151	mg/kg g

Health - Derived level of no effect - DNEL / DMEL

Acute route exposure	Effects on consumer			Effects on workers			
	Acute premises	Chronic premises	Systemic chronic	Acute premises	Acute premises	Chronic premises	Systemic chronic
Oral		VND	13 mg/kg/d				
Inhalation mg/m ³		1,25 mg/m ³	1,25 mg/m ³			5 mg/m ³	5
Dermal mg/kg/d		VND	3,1 mg/kg/d			VND	6,3

Legend:

(C) = CEILING ; INALAB = Inhalable fraction; RESPIR = Breathable fraction; TORAC = Thoracic fraction.
VND = hazard identified but no DNEL / PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure control:

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local exhaust.

For the choice of personal protective equipment, if necessary, seek advice from your chemical suppliers. Personal protective equipment must bear the CE mark which certifies their compliance with current regulations.

Provide an emergency shower with face and eye basin.

HAND PROTECTION

Protect hands with category III work gloves (ref. Standard EN 374).

For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and mode of use.

SKIN PROTECTION

Wear category II professional long-sleeved work clothes and safety footwear (ref. Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear a hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit

the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137 standard) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment should be controlled for compliance with environmental protection legislation.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical:

Physical state clear liquid

Yellow-green color

Odor Not available

Odor threshold Not available

pH Not available

Melting or freezing point Not applicable

Initial boiling point Not available

Boiling range Not available

Flash point Not applicable

Evaporation rate Not available

Flammability of solids and gases not applicable (liquid product)

Lower flammability limit Not applicable

Upper flammability limit Not applicable

Lower explosive limit Not applicable

Upper explosive limit Not applicable

Vapor pressure Not available

Vapor density Not available

Relative density 1.18

Solubility in water

Partition coefficient: n-octanol / water: Not available

Auto-ignition temperature Not applicable

Decomposition temperature Not available

Viscosity Not available

Explosive properties non-explosive product

Oxidizing properties Not available

9.2. Other information:

Total solids (250 ° C / 482 ° F) 13.25%

VOC (Directive 2010/75 / EC): 0

VOC (volatile carbon): 0

Explosion hazard No.

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 under normal conditions of use and storage.

10.3. Possibility of hazardous reactions:

Under normal conditions of use and storage no dangerous reactions are foreseeable.

10.4 Conditions to avoid:

None in particular. However, follow the usual precautions against chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products:

Information not available.

Section 11. Toxicological information

TRIETHANOLAMINE

LC0 Inhalation (rat)

Value: = 1.8 mg / m³

For. of the test: 8 h

Metabolism, kinetics, mechanism of action and other information Information not available

Information on likely routes of exposure Information not available

Delayed and immediate effects and chronic effects from short and long term exposure

Information not available

Interactive effects Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: 18.8 mg / l

LD50 (Oral) of the mixture:> 2000 mg / kg

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

TRIETHANOLAMINE

Value: = 1.8 mg / m³

For. of the test: 8 h

LD50 (Oral)> 2000 mg / kg (rat)

LD50 (Dermal)> 2000 mg / kg (rabbit)

TETRASODIC EDTA

LD50 (Oral) 2000 mg / kg rat

SKIN CORROSION / SKIN IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

It does not meet the classification criteria for this hazard class

MUTAGENICITY ON GERMINAL CELLS

It does not meet the classification criteria for this hazard class

CARCINOGENICITY

It does not meet the classification criteria for this hazard class

REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

It does not meet the classification criteria for this hazard class

Section 12. Ecological information

12.1 **Toxicity:**

TRIETHANOLAMINE

LC50 - Fish > 10000 mg / l / 96h

EC50 - Crustaceans > 600 mg / l / 48h

EC50 - Algae / Aquatic Plants 512 mg / l / 72h.

12.2 **Persistence and degradability:**

TRIETHANOLAMINE

Quickly degradable

12.3 **Bio accumulative potential:**

TRIETHANOLAMINE

little bioaccumulative.

12.4 **Mobility in the soil:**

TRIETHANOLAMINE

the product has very high mobility potential

12.5 Results of PBT and vPvB assessment:

The substances in the mixture do not meet the PBT/vPvB criteria according the REACH annex XIII

12.6 Other adverse effects:

Information not available

Section 13. Disposal considerations**13.1. Waste treatment methods:**

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be evaluated according to the laws in force.

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

Section 14. Transport information

The product is not included in the scope of the regulations on the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.1. **UN number:** Na

14.2. **UN proper shipping name:** Na

14.3. **Transport hazard class(es):** Na

14.4. **Packing group:** Na

14.5. **Environmental hazards:** Na

14.6. **Special precautions for users:** Na

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC code:** Not relevant information

Section 15. Regulatory information**15.1. Standards and legislation on health, safety and environment specific for the substance or mixture:**

Seveso Category - Directive 2012/18 / EC: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Product

Point 3

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH) None

Substances subject to export notification obligation Reg. (EC) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. **Chemical Safety Assessment**

A chemical safety assessment has been carried out for the following contained substances:

Triethanolamine.

Section 16. Other information

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

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
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- WGK: Water hazard class (Germany).

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Further Information

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safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.