

Section 1. Identification of the substance or mixture and of the Company / Undertaking

1.1. Product identification:

Product name : AMTRA ALGENKUR X

Commercial code: A3050643 - A3050644

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

Description / Uses:

Conditioner for ornamental aquariums.

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

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

1.4. Emergency Phone Number:

Florence Poison Center: Telephone +39 055 794 7819 (CAV-Careggi Hospital in Florence).

Genoa Poison Center: Telephone +39 010 563 6245 (Scientific Institute G. Gaslini).

Turin Poison Center : Telephone +39 011/6637637 (SG Baptist Hospital - Molinette of Turin).

Pavia Poison Center: Telephone +39 038 224 444 (CAV IRCCS Fondazione Maugeri-Pavia).

Rome Poison Center: Telephone +39 06 305 4343 (CAV Policlinico Gemelli-Rome).

Rome Poison Center: Telephone +39 06499780 00 (CAV Policlinico Umberto I-Rome).

Naples Poison Center: Telephone +39 081 747 2870 (CAV Cardarelli Hospital-Naples).

Milan Poison Centre: Telephone +39 02661010 29 (CAV Niguarda Ca 'Granda - Milan) (H-24)

Bergamo Poison Centre: Telephone 800883300 (Hospital Papa Giovanni XXIII)

Section 2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1 Classification under the Regulation 1272/2008: The preparation is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments)

2.2. Labeling elements: Danger labeling under the Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Hazard symbols: None

Warnings: None

Hazard statements: None

Precautionary Statements: None

Product not intended for the uses foreseen by Dir. (CE) 2004 / 42 .

2.3. Other hazards:

Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%

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 set forth in Directives 67/548/EEC and/or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments) in such quantities as to require the declaration.

Section 4. First aid measures

4.1 Description of first aid measures:

Not specifically necessary. It is recommended in all cases respect the rules of good industrial hygiene.

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

No episodes of damage to health attributable to the product.

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

Information not available

Section 5. Fire-fighting measures

5.1. Extinguishing media:

SUITABLE EXTINGUISHING MEDIA:

Carbon dioxide, foam, dust and water spray

EXTINGUISHING MEDIA NOT SUITABLE:

None in particular.

5.2. Special hazards arising from the substance or mixture:

Avoid breathing products of combustion.

5.3. Recommendations for those involved in extinguishing fires:

GENERAL INFORMATION

Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Always wear the complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to the regulations in force.

EQUIPMENT

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), complete with flame retardant (EN469), fireproof gloves (EN 659) and boots for Firefighters (HO A29 or A30).

Section 6. Accidental release measures

In case of spillage of the product in water, facilitate the dispersion as it improves the biological degradation.

6.1. **Personal precautions, protective equipment and emergency procedures:**

In the case of vapors or dust dispersed in the air, use respiratory protection. These indications are valid both for workers involved in the work and for emergency interventions.

6.2. **Environmental precautions:**

Prevent product from entering into the drains, surface water, ground water and neighboring areas.

6.3. **Methods and materials for containment and cleaning up:**

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

6.4. **Reference to other sections (see section 8 and 13):**

The disposal of contaminated material must be made in accordance with the provisions of section 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 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 the containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany): 12

7.3. **Specific end uses:**

None known.

section 8. Exposure controls/personal protection

8.1. **Control parameters:**

Normative requirements:

MONOPROPYLENE GLYCOL:

Threshold Limit Value:	TYPE	STATE	TWA /8h	STEL/24MIN
	WELL	GBR	474 mg/m3	150 ppm

Predicted concentration of no effect on the environment - PNEC

Reference value in fresh water 260 mg/l

Reference value in salt water 26 mg/l

Reference value for sediments in fresh water 572 mg/Kg

Reference value for sediments in sea water 57,2 mg/Kg

Reference value for water, intermittent release 183 mg/l

Reference value for STP microorganisms 20000 mg/l

Reference value for the terrestrial compartment 50 mg/Kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Exposition	local acute	systemic acute	local chronic	systemic chronic	local acute	systemic acute	local chronic	systemic chronic
oral			VND	85 mg/kg bw/d				
inhalation			10 mg/m3	50 mg/m3			0,01 mg/kg bw/d	168 mg/kg bw/d
dermal			VND	213 mg/kg bw/d				

Legend:

(C) = CEILING; INALAB = Inhalable Fraction; RESPIR = Breathable Fraction; TORAC = Thoracic Fraction.

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

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8.2. Exposure controls:

Observe the usual safety measures when handling chemicals.

HAND PROTECTION

Unnecessary.

PROTECTION OF THE SKIN

Unnecessary.

EYE PROTECTION

Unnecessary.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to

wear a type A filter mask whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (Ref. EN 14387 standard). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.)

combined type filters must be provided.

The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit worker exposure to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the considered substance 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. standard EN 137) or an external air intake respirator (ref. standard

EN 138). For the correct choice of the respiratory protection device, refer to EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment should be checked for compliance of the environmental protection legislation.

Section 9. Physical and chemical properties**9.1. Information on basic physical and chemical: Physical form: Liquid**

Color: opalescent

Odor: none

Odor detection threshold: NA (not available).

pH = 8,0 - 10,0

Melting point or freezing: -8 °C

Boiling Point range: > 100 °C

Distillation range: NA (not available).

Flash Point: > 60 °C

Evaporation Rate: NA (not available).

Flammability of solids and gases: NA (not available). Lower explosive limit: NA (not available).

Upper limit of flammability: NA (not available).

Lower explosive limit: NA (not available).

Upper explosive limit: NA (not available).

Vapor Pressure: NA (not available).

Vapour density: NA (not available).

Relative density: NA (not available)

Solubility: Soluble in water

N-octanol/water partition coefficient: NA (not available). Ignition temperature: NA (not available).

Decomposition temperature: NA (not available).

Viscosity: NA (not available).

Explosive properties: NA (not available).

Oxidizing properties: NA (not available).

9.2. Other information:

none

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 mixture is stable under normal conditions of use and storage

10.3. Possibility of hazardous reactions:

In normal conditions of use and storage no dangerous reactions are predictable.

10.4 Conditions to avoid:

No dangerous reactions if used and stored according to specifications.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products:

Information not available.

Section 11. Toxicological information

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 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)

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 AWARENESS

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 TOXICITY FOR TARGET ORGANS (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TOXICITY FOR TARGET ORGANS (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

Adopt good working practices, avoiding littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. The product is not considered hazardous to the environment than to mobility, persistence and degradability, bioaccumulative potential, aquatic toxicity and other aspects relating to ecotoxicity.

Ecotoxicity:

EC50 (48 h) Daphnia magna 1250 mg / l

The product does not present environmental hazards with respect to mobility, persistence and degradability, bioaccumulation potential, aquatic toxicity and other aspects related to ecotoxicity.

12.1 Toxicity:

Information not available

12.2 Persistence and degradability:

Information not available.

12.3 Bioaccumulative potential:

Information not available.

12.3 Bioaccumulative potential:

Information not available.

12.5 Results of PBT and vPvB assessment:

Based on the available data, the product does not contain any PBT or vPvB in percentage higher than 0.1%.

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 a company authorized to manage waste, in compliance with national legislation and possibly local.

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 classified as dangerous under current provisions governing the transport of dangerous goods by road (ADR), by Rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number

Not applicable

14.2. UN shipping name

Not applicable

14.3. Transport hazard class (es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

Not applicable

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.

None.

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

None.

Substances in Candidate List (Art. 59 REACH):

None.

Substances subject to authorization (Annex XIV REACH):

None.

Substances subject to export notification Reg. (EC) 649/2012):

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None

Healthcare controls:

No information available

Classification for water pollution in Germany (AwSV, vom 18. April 2017)

WGK Nwg: Not hazardous to water

15.2. Chemical safety assessment:

Has not been developed a chemical safety assessment for the mixture and the substances it contains.

Section 16. Other information

An explanation of acronyms used with legend:

Decoding of use descriptors:

ERC 2 Formulation of preparations

ERC 3 Formulation in materials

ERC 7 Industrial use of substances in closed systems

PC 20 Products such as pH regulators, flocculants, precipitators, neutralizing agents

PC 21 Laboratory chemicals

PC 36 Water purifiers

PC 37 Chemicals for water treatment

PROC 15 Use as laboratory reagents

PROC 3 Use in a closed batch process (synthesis or formulation)

PROC 8b Transfer of a substance or preparation (filling / emptying) from / to containers / large containers, in dedicated structures

PROC 9 Transfer of a substance or preparation in small containers (dedicated filling line, including weighing)

SU 1 Agriculture, forestry, fishing

SU 10 Formulation [mixing] of preparations and / or repackaging (except alloys)

SU 11 Manufacture of rubber articles

SU 12 Manufacture of plastics, including compounding and conversion

SU 13 Manufacture of other non-metallic mineral products, for example plaster, cement

SU 14 Metallurgical activities, including alloys

SU 15 Manufacture of metal products, excluding machinery and equipment

SU 16 Manufacture of computers and electronic and optical products, electrical equipment

SU 17 Manufacture of generic items, for example machinery, equipment, motor vehicles and other vehicles transport

SU 18 Manufacture of furniture

SU 19 Buildings

SU 20 Health services

SU 23 Electricity, steam, gas, water supply and waste water treatment

SU 24 Scientific research and development

SU 4 Food industries

SU 5 Packaging of articles in fabric, leather and fur

SU 6a Processing of wood and wood products

SU 6b Production of pulp for the manufacture of paper, paper and paper products

SU 7 Printing and reproduction of recorded media

SU 8 Large-scale production of basic chemicals (including petroleum products)

SU 9 Manufacture of fine chemicals

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration that gives effect to 50% of the test population
- 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: Global harmonized system for the classification and labeling of chemical products
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the test population
- 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%

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- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any time of the work 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: Aquatic 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)
- 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 Higher Institute of Health

Note for the user:

The information contained in this sheet is based on the knowledge available from us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws under his own responsibility and the current provisions on hygiene and safety. No liability is assumed for improper use.

Provide adequate training to personnel involved in the use of chemicals.

Changes from the previous revision

Changes have been made to the following sections:

01/04/06/07/08/11/13/15/16.