



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

1.1. Product Identifier

Mixture identification:

Trade name: **MULTIFUNCTION**

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

Chlorinator agent at slow dissolution, with anti algae and flocculant.

1.3. Details of the supplier of the safety data sheet

Company:
BARCHEMICALS SRL
VIA S.ALLENDE 14
CASTELNUOVO RANGONE (MO)
ITALY
PHONE. +39 059/536502
FAX. +39 059/536742

Competent person responsible for the safety data sheet:
barani.corrado@barchemicals.it

1.4. Emergency telephone number

Barani Dr.Corrado - MOBILE PHONE. +39 335/6109383

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- Danger, Ox. Sol. 2, May intensify fire
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning, STOT SE 3, May cause respiratory irritation.
- Warning, Aquatic Acute 1, Very toxic to aquatic life.
- Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.
- Warning, Acute Tox. 4, Harmful if swallowed.

EUH031 Contact with acids liberates toxic gas.

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

- O Oxidizing
- Xn Harmful
- Xi Irritant
- N Dangerous for the environment

R Phrases:

- R22 Harmful if swallowed.
- R31 Contact with acids liberates toxic gas.
- R36/37 Irritating to eyes and respiratory system.

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1/8

Solution for Water Treatment

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R8 Contact with combustible material may cause fire.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

Precautionary statements:

P210 Keep away from heat — No smoking.

P221 Take any precaution to avoid mixing with combustibles/...

P273 Avoid release to the environment.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use ... For extinction.

Special Provisions:

EUH031 Contact with acids liberates toxic gas.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

80% - 90% Symclosene; trichloroisocyanuric acid;

Index number: 613-031-00-5, CAS: 87-90-1, EC: 201-782-8

O,Xn,Xi,N; R22-31-36/37-50/53-8

2.14/2 Ox. Sol. 2 H272

3.3/2 Eye Irrit. 2 H319

3.8/3 STOT SE 3 H335

4.1/A1 Aquatic Acute 1 H400

4.1/C1 Aquatic Chronic 1 H410

3.1/4/Oral Acute Tox. 4 H302

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2/8

4% - 8% Copper sulphate

Index number: 029-004-00-0, CAS: 7758-98-7, EC: 231-847-6

Xn, Xi, N; R22-36/38-50/53

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

⚠ 3.1/4/Oral Acute Tox. 4 H302

4% - 8% Aluminium Sulphate

REACH No.: 01-2119531538-36, CAS: 10043-01-3, EC: 233-135-0

Xi; R36

⚠ 3.3/1 Eye Dam. 1 H318

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Rinse mouth thoroughly and drink plenty of water.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

CO₂ or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

3/8

Solution for Water Treatment

5.3. Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage at room condition and protect from direct light.

Keep away from food, drink and feed.

Incompatible materials:

Keep away from acids.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

None.

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Basket eye glasses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Numero telefonico di chiamata urgente: +39 335 6109383

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

4/8

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- Rubber gloves
- Respiratory protection:
Use respiratory protection with filter for chlorine when the ventilation is insufficient or exposure is prolonged.
- Thermal Hazards:
None
- Environmental exposure controls:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour:	White tablet with Blue spot
Odour:	Chlorine odour
Odour threshold:	N.A.
pH:	2,5 - 3,0 (slz. 1% in water)
Melting point / freezing point:	225 - 240 °C
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	Non infiammabile
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	N.A.
Solubility in water:	12 g/l
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	> 200 °C
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Do not mix with acids

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Toxic gas (chlorine).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the mixture:

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

Solution for Water Treatment

N.A.

Toxicological information of the main substances found in the mixture:

Alluminium Sulphate - CAS: 10043-01-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 6207 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetriion - CAS: 87-90-1

LD50 (RAT) ORAL: 406 MG/KG

LD50 (RABBIT) SKIN: 20000 MG/KG

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetriion - CAS: 87-90-1

Test: LC50 - Species: rain - Duration h: 96 - mg/l: 2

Alluminium Sulphate - CAS: 10043-01-3

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 235

Test: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 160

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



Numero telefonico di chiamata urgente: +39 335 6109383

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

6/8

14.1. UN number

ADR-UN Number: 2468
IATA-UN Number: 2468
IMDG-UN Number: 2468

14.2. UN proper shipping name

ADR-Shipping Name: TRICHLOROISOCYANURIC ACID, DRY
IATA-Shipping Name: TRICHLOROISOCYANURIC ACID, DRY
IMDG-Shipping Name: TRICHLOROISOCYANURIC ACID, DRY

14.3. Transport hazard class(es)

ADR-Class: 5.1
ADR - Hazard identification number: 50
IATA-Class: 5.1
IMDG-Class: 5.1

14.4. Packing Group

ADR-Packing Group: II
IATA-Packing group: II
IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Yes

14.6. Special Precautions for User

ADR-Tunnel Restriction Code: (E)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

15. REGULATORY INFORMATION

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

15.2. Chemical Safety Assessment

No

16. OTHER INFORMATION

Product for professional use

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

Solution for Water Treatment

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.

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Azienda Certificata UNI EN ISO 9001 - CERT. N° 4247 Azienda Certificata UNI EN ISO 14001 - CERT. N° 6388

8/8