

Safety Data Sheet dated 19/2/2013, version 1



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

### 1.1. Product Identifier

Mixture identification:

Trade name:

**BLU CHLOR MULTIACTION (20 g Tablets)**

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

Chlorinator stabilized agent for swimming pool water. Minimum active chlorine 56%.

### 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)

Warning, Acute Tox. 4, Harmful if swallowed.

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.

EUH031 Contact with acids liberates toxic gas.

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

Properties / Symbols:

Xn Harmful

Xi Irritant

N Dangerous for the environment

R Phrases:

R22 Harmful if swallowed.

R32 Contact with acids liberates very toxic gas.

R36/37 Irritating to eyes and respiratory system.

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

Adverse physicochemical, human health and environmental effects:

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## *Solution for Water Treatment*

No other hazards

### 2.2. Label elements

#### EC regulation criteria 1272/2008 (CLP)

Symbols:



Warning

Hazard statements:

- H302 Harmful if swallowed.
- 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.

Precautionary statements:

- 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.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

- EUH031 Contact with acids liberates toxic gas.
- EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Contents

troclosene sodium, dihydrate

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

Symbols:

- Xn Harmful
- N Dangerous for the environment

R Phrases:

- R22 Harmful if swallowed.
- R32 Contact with acids liberates very toxic gas.
- R36/37 Irritating to eyes and respiratory system.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S41 In case of fire and/or explosion do not breathe fumes.
- S56 Dispose of this material and its container to hazardous or special waste collection point.
- S57 Use appropriate container to avoid environmental contamination.
- S60 This material and its container must be disposed of as hazardous waste.

Contents

troclosene sodium, dihydrate

### 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

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2/8

### *Solution for Water Treatment*

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

90% - 100% troclosene sodium, dihydrate

Index number: 613-030-01-7, CAS: 51580-86-0, EC: 220-767-7

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

⚠ 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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## 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.

After contact with skin, wash immediately with soap and plenty of water.

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

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## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Foam.

Carbon dioxide (CO<sub>2</sub>).

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.

### 5.3. Advice for fire-fighters

Use suitable breathing apparatus .

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

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### *Solution for Water Treatment*

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

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## **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, organic, 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

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## **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:  
Adequately ventilated premises.

### **7.3. Specific end use(s)**

None in particular

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## **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:  
Use close fitting safety goggles, don't use eye lens.  
Protection for skin:  
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
Protection for hands:  
Rubber gloves.  
Respiratory protection:

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### *Solution for Water Treatment*

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2 or CEN/FFP-3.

Thermal Hazards:

None

Environmental exposure controls:

None

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance and colour:	White tablets
Odour:	Of Chlorine
Odour threshold:	N.A.
pH:	6 (1% solution in water)
Melting point / freezing point:	230 °C
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
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:	300 g/l
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
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.

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## 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

It may generate flammable gases on contact with caustic substances, and nitrides.

It may generate toxic gases on contact with mineral acids, aliphatic and aromatic amines, and powerful oxidising agents.

It may catch fire on contact with oxidising mineral acids, and elementary metals (sheets and bars).

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Acid products.

### 10.6. Hazardous decomposition products

None

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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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5/8



## *Solution for Water Treatment*

Toxicological information of the mixture:

BLU CHLOR MULTIACTION

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1800 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

Test: Respiratory Tract Irritant - Species: Rabbit Positive

Toxicological information of the main substances found in the mixture:

N.A.

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.

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

Bioaccumulative: No

### 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



### 14.1. UN number

ADR-UN Number: 3077

IATA-UN Number: 3077

IMDG-UN Number: 3077

### 14.2. UN proper shipping name

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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-Shipping Name: SOLID SUBSTANCE - HARMFUL FOR THE ENVIRONMENT, N.A.S.  
(troclosene sodium, dihydrate)  
IATA-Shipping Name: SOLID SUBSTANCE - HARMFUL FOR THE ENVIRONMENT, N.A.S.  
(troclosene sodium, dihydrate)  
IMDG-Shipping Name: SOLID SUBSTANCE - HARMFUL FOR THE ENVIRONMENT, N.A.S.  
(troclosene sodium, dihydrate)

#### **14.3. Transport hazard class(es)**

ADR-Class: 9  
ADR - Hazard identification number: 90  
IATA-Class: 9  
IATA-Label: Miscellaneous  
IMDG-Class: 9

#### **14.4. Packing Group**

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

#### **14.5. Environmental hazards**

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

#### **14.6. Special Precautions for User**

ADR-Tunnel Restriction Code: (E)  
IATA-Passenger Aircraft: 956  
IATA-Cargo Aircraft: 956  
IATA-S.P.: A97-A158-A179  
IATA-ERG: 9L  
IMDG-EmS: F-A , S-F  
IMDG-Storage category: A

#### **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.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

### **15.2. Chemical Safety Assessment**

No

## **16. OTHER INFORMATION**

Product for professional use.

Full text of phrases referred to in Section 3:

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R36/37 Irritating to eyes and respiratory system.

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

H319 Causes serious eye irritation.

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

## *Solution for Water Treatment*

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.

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.

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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