








Safety Data Sheet  
BLU CHLOR MULTIACTION

Safety Data Sheet dated 20/9/2017, version 3

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier  
Mixture identification:  
Trade name: BLU CHLOR MULTIACTION
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Identified use:  
Sodium dichloroisocyanurate stabilized, 56% active chlorine tablet 20 g.  
Uses advised against:  
Any other use different from the identified uses.
- 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  
www.barchemicals.it  
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

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
EC regulation criteria n°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.

Adverse physicochemical, human health and environmental effects:  
No other hazards

- 2.2. Label elements  
Hazard pictograms:



Warning  
Hazard statements:  
H302 Harmful if swallowed.

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH031 Contact with acids liberates toxic gas.

Contains

troclosene sodium, dihydrate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards






**SECTION 3: Composition/information on ingredients**

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
≥ 90%	troclosene sodium, dihydrate	Index number: 613-030-01-7	 3.1/4/Oral Acute Tox. 4 H302
		CAS: 51580-86-0	 3.3/2 Eye Irrit. 2 H319
		EC: 220-767-7	 3.8/3 STOT SE 3 H335
		REACH No.: 01-2119489371-33	 4.1/A1 Aquatic Acute 1 H400
			 4.1/C1 Aquatic Chronic 1 H410 EUH031

**SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

After contact with skin, wash immediately with soap and plenty of water.  
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 well your mouth  
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

- In case of breathing difficult, bring the injured person into the open air and store it in a comfortable position for breathing. Consult a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- 4.2. Most important symptoms and effects, both acute and delayed  
The product is harmful if swallowed. Irritates the eyes, respiratory system and prolonged exposure to even the skin.  
After contact with the eyes produces redness and pain.  
If inhaled it can cause the following symptoms: cough, labored breathing, sore throat and difficulty breathing.
- 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:  
If swallowed, seek immediate medical attention. Do not induce vomiting to the danger of perforation. Keep the patient at rest.  
In case of contact with eyes, rinse immediately for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**SECTION 5: Firefighting measures**

- 5.1. Extinguishing media  
Suitable extinguishing media:  
Full jet water.  
Carbon dioxide (CO<sub>2</sub>).  
Extinguishing media which must not be used for safety reasons:  
Do not use dry chemical extinguishers containing ammonium base compounds.
- 5.2. Special hazards arising from the substance or mixture  
Combustion produces toxic gas (Chlorine).
- 5.3. Advice for firefighters  
Immediately isolate the area by removing all persons from the area of the accident in the event of a fire. No action shall be taken involving any personal risk or without proper training. Firefighters must wear protective equipment and self-contained breathing apparatus (SCBA) with a full-face mask on the working face at positive pressure. Fire extinguishers (including helmets, protective boots and gloves) conforming to European Standard EN469 will provide basic protection for chemical accidents.

**SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures  
Evacuate the surrounding areas.  
Do not touch or walk on spilled material.  
Avoid breathing vapors or mists.  
Provide adequate ventilation.  
Wear personal protection equipment.  
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.
- 6.3. Methods and material for containment and cleaning up  
Collect with the shovel and place in suitable containers for disposal. Avoid dust formation.  
After cleaning each trace with water. Eliminate in compliance with the applicable standard.  
Dispose of contaminated material in suitable containers and start waste disposal. After collection, rinse the area and materials with water by retrieving the water used and, if necessary, dispose of it in authorized plants.
- 6.4. Reference to other sections

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

See also section 8 and 13

**SECTION 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

Keep in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from other incompatible materials (see section 10) and food and drink. Keep the container tight and sealed until use. Open containers should be carefully resealed and kept straight to avoid accidental spillage of the product. Do not store in labels without label.  
Keep away from combustible material and avoid contact with organic material.  
Do not eat, drink or smoke at the workplace. Foods and beverages should be consumed only in areas specifically identified after removing contaminated clothing and protective equipment and after washing your hands. Wash in any case hands after handling the substance / mixture.  
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)

See section 1.2.

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

troclosene sodium, dihydrate - CAS: 51580-86-0  
Worker Professional: 8.11 03 - Consumer: 1.99 03 - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects  
Worker Professional: 2.3 mg/kg - Consumer: 1.15 mg/kg - Exposure: Human Dermal -  
Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

troclosene sodium, dihydrate - CAS: 51580-86-0  
Target: Fresh Water - Value: 0.000170 mg/kg  
Target: Marine water - Value: 1.52 mg/l  
Target: Freshwater sediments - Value: 7.56 mg/kg  
Target: Microorganisms in sewage treatments - Value: 0.560 mg/kg  
Target: Soil (agricultural) - Value: 0.756 mg/kg

8.2. Exposure controls

Eye/face protection:

Eye glasses with side protection. EN166

Protection for skin:

Protective suit.

Protection for hands:

Gloves resistant to chemicals. EN 374

Respiratory protection:

Respiratory protection necessary for the formation of dust. Filter device (EN 147). Type: B-P2, combined gas filters, inorganic (chlorine) vapors and particles; Color code: gray / white.

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**
**Thermal Hazards:**

Not applicable (the product is handled at room temperature)

**Environmental exposure controls:**

Do not allow the product to be absorbed from the soil or from entering waterways or sewers.

Do not let product enter drains. Discharge into the environment must be avoided.

The product is toxic to the aquatic environment.

**Appropriate engineering controls:**

Ensure adequate ventilation. Comply with the maximum concentration values in the workplace.

Predict the presence of showers and eye wash fountains at the workplace.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Properties	Value	Method:	Notes:
Appearance and colour:	White pads	--	--
Odour:	Chlorinated pungent	--	--
Odour threshold:	Not Available	--	--
pH:	6	--	1% solution in water
Melting point / freezing point:	240 °C	--	--
Initial boiling point and boiling range:	Not Available	--	--
Flash point:	Not inflammable	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	Not inflammable	--	--
Upper/lower flammability or explosive limits:	Not inflammable	--	--
Vapour pressure:	0.006 Pa	--	at 20 °C
Vapour density:	Not Available	--	--
Relative density:	Not Available	--	--
Solubility in water:	300 g/l	--	at 25 °C
Solubility in oil:	Not Available	--	--
Partition coefficient (n-octanol/water):	Not applicable	--	Mixture of ionizing substances
Auto-ignition temperature:	Non-pyrophoric product	--	--
Decomposition temperature:	Not Available	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not explosive product	--	--
Oxidizing properties:	Non Oxidant	--	--

**9.2. Other information**

Properties	Value	Method:	Notes:
Miscibility:	Complete	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	Not Available	--	--
Substance Groups	N.A.	--	--

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

relevant properties			
---------------------	--	--	--

**SECTION 10: Stability and reactivity**

- 10.1. Reactivity  
The product is not pyrophoric.  
Stable under normal conditions.
- 10.2. Chemical stability  
Stable under recommended storage and handling. Please refer to section 7 of the MSDS.
- 10.3. Possibility of hazardous reactions  
In the presence of combustible materials.  
In the presence of ammonia or ammonia solutions, dangerous concentrations of NCl<sub>3</sub>, a highly explosive gas, are generated. Hydrogen peroxide reacts violently by release of O<sub>2</sub> (oxygen).  
In contact with alcohol, especially with the laurian, it remains latent for some moments and then reacts violently producing black flames and fumes.
- 10.4. Conditions to avoid  
Do not mix with acids. It can be produced toxic gases (chlorine).  
Keep away from heat sources.  
Avoid contact with organic material.
- 10.5. Incompatible materials  
Concentrated acids.  
organic substances.  
Metals, ammonia, amines, unsaturated aliphatic and aromatic compounds, hydrogen peroxide, phenols, solvents, calcium hypochlorite.
- 10.6. Hazardous decomposition products  
Chlorine.  
Carbon dioxide and carbon monoxide.  
Nitrogen oxides.

**SECTION 11: Toxicological information**

- 11.1. Information on toxicological effects  
Toxicological information of the product:  
N.A.
- Toxicological information of the main substances found in the product:  
troclosene sodium, dihydrate - CAS: 51580-86-0
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 1671-2094 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat 270-1170 mg/m<sup>3</sup> - Duration: 4h  
Test: LD50 - Route: Skin - Species: Rat 5000 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 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.

**SECTION 12: Ecological information**

- 12.1. Toxicity

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

No information is available on the mixture as a whole. This is the information on ecotoxicological effects of the individual components.

troclosene sodium, dihydrate - CAS: 51580-86-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 230-8000000 µl/kg - Duration h: 96

Endpoint: EC50 - Species: aquatic invertebrates 0.170 mg/l - Duration h: 48

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria 100 mg/l - Duration h: 72

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

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

**SECTION 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

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)

14.3. Transport hazard class(es)

ADR-Class: 9

ADR - Hazard identification number: 90

IATA-Class: 9

IATA-Label: 9

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

Most important toxic component: troclosene sodium, dihydrate

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

- 14.6. Special precautions for user
- |   |   |
|---|---|
| ADR-Subsidiary risks:                             | -   |
| ADR-S.P.:   | 274 335 601   |
| ADR-Transport category (Tunnel restriction code): | (E)   |
| IATA-Passenger Aircraft:                          | 956   |
| IATA-Subsidiary risks:                            | -   |
| IATA-Cargo Aircraft:                              | 956   |
| IATA-S.P.:  | A97 A158 A179   |
| IATA-ERG:   | 9L  |
| IMDG-EmS:   | F-A , S-F   |
| IMDG-Subsidiary risks:                            | -   |
| IMDG-Stowage and handling:                        | Category A  |
| IMDG-Segregation:                                 | When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. |
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

**SECTION 15: Regulatory information**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) 2015/830
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

- Directive 2012/18/EU (Seveso III)
- Regulation (EC) nr 648/2004 (detergents).
- Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

- Seveso III category according to Annex 1, part 1
- Product belongs to category: E1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

**SECTION 16: Other information**

**For professional use.**



**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

Full text of phrases referred to in Section 3:

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.

EUH031 Contact with acids liberates toxic gas.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 5: Firefighting measures

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 15: Regulatory information

SECTION 16: Other information

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

Liability exclusion clause: 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.

For professional use.

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.

**Safety Data Sheet**  
**BLU CHLOR MULTIACTION**

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.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.