



Safety Data Sheet
BLU FLOC TABLET

Safety Data Sheet dated 28/8/2017, version 3

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

1.1. Product identifier

Identification of the substance:

Trade name: BLU FLOC TABLET
CAS number: 10043-01-3
EC number: 233-135-0
REACH number: 01-2119531538-36

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

Flocculant in tablets for sand filters.

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, Met. Corr. 1, May be corrosive to metals.

 Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H290 May be corrosive to metals.
H318 Causes serious eye damage.

Precautionary statements:

P102 Keep out of reach of children.
P234 Keep only in original container.

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P280 Wear protective gloves and eye/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P390 Absorb spillage to prevent material damage.
 P406 Store in corrosive resistant container.

Special Provisions:

None

Contains

Aluminum sulphate

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

Identification of the substance:

Chemical characterization: BLU FLOC TABLET

Trade code: 212006015

CAS number: 10043-01-3

EC number: 233-135-0

REACH number: 01-2119531538-36

Qty	Name	Ident. Number	Classification
>= 90%	Aluminum sulphate	CAS: 10043-01-3 EC: 233-135-0 REACH No.: 01-2119531538-36	 2.16/1 Met. Corr. 1 H290  3.3/1 Eye Dam. 1 H318

3.2. Mixtures

N.A.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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.
OBTAIN IMMEDIATE MEDICAL ATTENTION.

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.

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.

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

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After contact with the eyes produces redness and pain.

Inhalation produces a burning sensation, coughing, difficulty breathing and sore throat.

In case of accidental ingestion, it can cause abdominal pain and vomiting.

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:

In case of contact with eyes, rinse immediately for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed, rinse mouth and drink water. Consult a doctor as soon as possible.

In case of inhalation seek medical advice immediately and show the container or label.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Water spray, heavy alcohol foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and combustion gases.

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.

Prevent entry of foreign and unprotected personnel.

Do not touch or walk on spilled material.

Avoid breathing vapors or mists.

Use appropriate respiratory protection.

Wear personal protection equipment.

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

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.

6.4. Reference to other sections

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.

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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

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.

Store at room temperature in airtight containers in a dry and well-ventilated place.

Do not pour the product into other containers. Always use the original container.

Keep away from food, drink and feed.

Incompatible materials:

See the next paragraph 10.

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

BLU FLOC TABLET - CAS: 10043-01-3

ACGIH - TWA(8h): 1 mg/m³, 0.9 ppm

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Aluminum sulphate - CAS: 10043-01-3

ACGIH - TWA(8h): 2 mg/m³

DNEL Exposure Limit Values

Alluminio solfato - CAS: 10043-01-3

Worker Professional: 10 03 - Consumer: 5 03 - Exposure: Human Inhalation -

Frequency: Short Term, systemic effects

Worker Professional: 3 03 - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 3 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 10 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 2.72 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 46.7 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 9.2 04 - Exposure: Human Dermal - Frequency: Long Term, local effects

Worker Professional: 9.2 04 - Exposure: Human Dermal - Frequency: Short Term, local effects

Consumer: 1.5 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 5 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

Aluminum sulphate - CAS: 10043-01-3

Target: Fresh Water - Value: 4.50 mg/l

Target: Marine water - Value: 64.0 mg/l

Target: Microorganisms in sewage treatments - Value: 60.2 mg/l

Target: Freshwater sediments - Value: 10 mg/l

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Target: Marine water sediments - Value: 31.4 mg/l

Target: Soil (agricultural) - Value: 58 mg/kg

8.2. Exposure controls

Eye/face protection:

Eye glasses with side protection. EN166

Protection for skin:

Clothing resistant to corrosive products CLASS I, EN 340

Protection for hands:

Gloves resistant to chemicals. EN 374

Respiratory protection:

Mask with filter "P", white colour

Thermal Hazards:

Not applicable (the product is handled at room temperature)

Environmental exposure controls:

None

Appropriate engineering controls:

Ensure adequate ventilation. Comply with the maximum concentration values in 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 pastilles	--	--
Odour:	Odorless	--	--
Odour threshold:	N.A.	--	--
pH:	3	--	10 g/l at 20 °C
Melting point / freezing point:	90°C	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	Not inflammable °C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1.4 kg/l	--	at 20 °C
Solubility in water:	Soluble	--	--
Solubility in oil:	Insoluble	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	650 °C	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not explosive product	--	--
Oxidizing properties:	Oxidant	--	--

9.2. Other information

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Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
May be corrosive to metals.
The product is not pyrophoric.
- 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 alkalis and metals.
Damages the iron in the presence of moisture.
- 10.4. Conditions to avoid
Keep away from heat sources.
Avoid moisture.
- 10.5. Incompatible materials
concentrated alkali.
Metals
- 10.6. Hazardous decomposition products
Sulfur oxides.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the substance:
BLU FLOC TABLET - CAS: 10043-01-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1930 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
No information is available on the mixture as a whole. This is the information on ecotoxicological effects of the individual components.
Aluminum sulphate - CAS: 10043-01-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 235 mg/l - Duration h: 96 - Notes: ECHA
Endpoint: EC50 - Species: Daphnia = 160 mg/l - Duration h: 48 - Notes: ECHA
- 12.2. Persistence and degradability

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- 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. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
Additional disposal information:
Retrieve if possible. Send to authorized disposal plants or incineration under controlled conditions. Work according to local and national regulations. Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Operate according to local and national regulations.

SECTION 14: Transport information

- 14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

The product is transported in conditions that comply with exemption criteria for ADR transport.

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)

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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

None

15.2. Chemical safety assessment

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

SECTION 16: Other information

For professional use.

Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Eye Dam. 1	3.3/1	Serious eye damage, 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 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

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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.
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.