





**Safety Data Sheet**  
**BLU DELUXE**

**Safety Data Sheet dated 12/9/2017, version 1**

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

- 1.1. Product identifier  
Mixture identification:  
Trade name: **BLU DELUXE**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Identified use:  
Algicide with very high concentration, especially suitable for summer swimming pools. No foaming with azure and lightening effect.  
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, Eye Irrit. 2, Causes serious eye irritation.
  -  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

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

- 2.2. Label elements  
Hazard pictograms:



- Warning  
Hazard statements:  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements:  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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:

None

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
>= 1% - < 3%	2,2'-iminodiethanol; diethanolamine	Index	603-071-00-1
		number:	
		CAS:	111-42-2
		EC:	203-868-0
		REACH No.:	01-2119488930-28
>= 0.25% - < 0.5%	Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane	CAS:	25988-97-0

### 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.

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

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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:  
In case of contact with eyes, rinse immediately for at least 15 minutes under running water with eyelids held open, consult an eye specialist.  
After contact with skin, wash immediately with plenty of soap and water.  
If swallowed, rinse mouth and drink water. Consult a doctor as soon as possible.

## **SECTION 5: Firefighting measures**

- 5.1. Extinguishing media  
Suitable extinguishing media:  
Water.  
Full jet water.  
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.
- 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  
Remove persons to safety.  
Prevent entry of foreign and unprotected personnel.  
Do not touch or walk on spilled material.  
Avoid breathing vapors or mists.  
Wear personal protection equipment.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
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.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Retain contaminated washing water and dispose it.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
In case of a liquid product, hold and absorb the spillage with inert absorbent material (eg, sand, earth, vermiculite, fossil flour). Store contaminated material in suitable containers and start waste disposal. After collection, rinse the area and the materials with water by retrieving the water used and, if necessary, dispose of it in authorized plants.
- 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.  
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.

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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 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**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - Notes: (IFV), Skin, A3 - Liver and kidney dam

**DNEL Exposure Limit Values**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Worker Professional: 1 03 - Consumer: 0.25 03 - Exposure: Human Inhalation -

Frequency: Long Term (repeated)

Worker Professional: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal -

Frequency: Long Term (repeated)

Consumer: 0.06 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

**PNEC Exposure Limit Values**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Target: Fresh Water - Value: 0.0022 mg/l

Target: Marine water - Value: 0.00022 mg/l

Target: Freshwater sediments - Value: 0.012 mg/kg

Target: Marine water sediments - Value: 0.0012 mg/kg

Target: Soil (agricultural) - Value: 0.0012 mg/kg

**8.2. Exposure controls**

Eye/face protection:

Eye glasses with side protection. EN166

Protection for skin:

Chemical protection clothing.

Protection for hands:

Rubber gloves.

Respiratory protection:

Not necessary in normal use.

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.

**SECTION 9: Physical and chemical properties**

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

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Properties	Value	Method:	Notes:
Appearance and colour:	Liquid Blue	--	--
Odour:	Odorless	--	--
Odour threshold:	N.A.	--	--
pH:	6.5	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	Not Available	--	--
Flash point:	N.A.	--	--
Evaporation rate:	Not Available	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	Not Available	--	--
Vapour density:	Not Available	--	--
Relative density:	1.07 Kg/l	--	at 20 °C
Solubility in water:	Complete	--	at 20 °C
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	Not Available	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Available	--	--
Viscosity:	Not Available	--	--
Explosive properties:	Product not explosive	--	--
Oxidizing properties:	Not oxidizing product	--	--

**9.2. Other information**

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  
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  
No hazardous reactions when stored and handled properly.
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
No one in particular.
- 10.6. Hazardous decomposition products  
Carbon dioxide and carbon monoxide.  
Nitrogen oxides.

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## 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:

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1600 mg/kg

Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane - CAS: 25988-97-0

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 1672 mg/kg

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

LD50 (RAT) ORAL: 710 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.

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 55 mg/l - Duration h: 48

Endpoint: NOEC - Species: Daphnia = 0.78 mg/l - Duration h: 504

Endpoint: LC50 - Species: Fish = 1460 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 96

Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane - CAS: 25988-97-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.09 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 5.7 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 0.077 mg/l - Duration h: 96

### 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



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13.1. Waste treatment methods

Recover if possible. 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

ADR-UN Number:	3082
IATA-UN Number:	3082
IMDG-UN Number:	3082

14.2. UN proper shipping name

ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane)
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane)
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane)

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:	Methanamine, N-methyl-,polymer with 2-(chloromethyl)oxirane

14.6. Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	274 335 375 601
ADR-Transport category (Tunnel restriction code):	3 (E)
IATA-Passenger Aircraft:	964
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	964
IATA-S.P.:	A97 A158 A197
IATA-ERG:	9L
IMDG-EmS:	F-A , S-F
IMDG-Subsidiary risks:	-

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IMDG-Stowage and handling: Category A  
IMDG-Segregation: -  
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:

Restriction 3

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: E2

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.**

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2



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Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

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  
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 SECTION 9: Physical and chemical properties  
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 SECTION 14: Transport 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.  
 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.

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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.