

Safety Data Sheet dated 6/6/2024, Edition 2 - version 4
Regulation (EU) n. 2020/878

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

1.1. Product identifier

Identification of the mixture:

Trade name: BOERO FRESH WATER EU COMP.B

Trade code: 910.000 C

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

Identified uses:

Hardener.

User:

Consumer.

Professional.

Uses advised against:

All other uses.

1.3. Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

1.4. Emergency telephone number

Boero Bartolomeo S.p.A. - Tel.+39 010 55001

opening hours: Monday - Tuesday 9.00 am - 5.00 pm

UK: in an emergency the enquirer should call NHS 111/24/Direct (free-to-call medical helplines) or a doctor.

MALTA: tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Acute Tox. 4, H302 Harmful if swallowed.

Skin Corr. 1B, H314 Causes severe skin burns and eye damage.

Eye Dam. 1, H318 Causes serious eye damage.

Skin Sens. 1A, H317 May cause an allergic skin reaction.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P280 Wear protective gloves/clothing, eye/face protection and hearing protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container according to local regulations.

Special Provisions:

PACK1 The packing must be featured by a safety lock for children.
PACK2 The packing must have tactile indications of danger for blind people.

Contains

3-aminomethyl-3,5,5-trimethylcyclohexylamine
m-xylylenediamine
2-hydroxybenzoic acid

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

None

2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

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:

>= 60% - < 70% 3-aminomethyl-3,5,5-trimethylcyclohexylamine

REACH No.: 01-2119514687-32-XXXX, Index number: 612-067-00-9, CAS: 2855-13-2, EC: 220-666-8

Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1A H317 May cause an allergic skin reaction.

Specific Concentration Limits:
C >= 0,001%: Skin Sens. 1A H317

Acute Toxicity Estimate:
ATE - Oral 1030 mg/kg bw

>= 25% - < 30% m-xylylenediamine
REACH No.: 01-2119480150-50-xxxx, CAS: 1477-55-0, EC: 216-032-5
Acute Tox. 4 H332 Harmful if inhaled.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

>= 10% - < 12.5% 2-hydroxybenzoic acid
REACH No.: 01-2119486984-17-XXXX, CAS: 69-72-7, EC: 200-712-3
Acute Tox. 4 H302 Harmful if swallowed.
Eye Dam. 1 H318 Causes serious eye damage.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Remove contaminated clothing immediately and dispose off safely.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion:
Do NOT induce vomiting.
Give nothing to eat or drink.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
Protective measures for first responders
Please refer to section 8.2 of this safety data sheet for the PPE required for first responder interventions.
4.2. Most important symptoms and effects, both acute and delayed
Harmful if swallowed.
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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO_2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling the fumes.

5.3. Advice for firefighters

EQUIPMENT

Normal fire-fighting apparel, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant coveralls (EN469), flame-resistant gloves (EN 659) and firefighter boots (HO A29 or A30).

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.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Do not undertake any action that entails personal risk or without adequate training. Evacuate the surrounding areas. Do not touch or walk on spilled material. Wear suitable protective equipment (including the personal protective equipment under section 8.2 of this safety data sheet) to prevent contamination of skin, eyes and personal clothing. Wear a suitable breathing apparatus when ventilation is inadequate.

Do not inhale mist/vapours. Avoid dispersion of the product in the environment. Follow any relevant internal procedures for personnel not authorised to intervene directly in the case of accidental spillages.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Block the leak if not hazardous. Evacuate unauthorised personnel. Wear suitable protective equipment (consult section 8.2 of this safety data sheet). Follow the relevant internal procedures for authorised personnel. Isolate the hazardous area and prevent entry. Ventilate closed spaces before entering.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Adequately ventilated premises.

Advice on general occupational hygiene:
Contamined 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
Always keep the containers tightly closed.
Keep away from food, drink and feed.
None in particular.
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
m-xylylenediamine - CAS: 1477-55-0
ACGIH - STEL: Ceiling 0.018 ppm - Notes: Skin - Eye, skin, and GI irr

DNEL Exposure Limit Values
N.A.

PNEC Exposure Limit Values
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Target: Fresh Water - Value: 0.06 mg/L
Target: Marine water - Value: 0.006 mg/L
Target: Freshwater sediments - Value: 5.784 mg/kg
Target: Marine water sediments - Value: 0.578 mg/kg
Target: Soil (agricultural) - Value: 1.121 mg/kg

8.2. Exposure controls
Appropriate engineering controls:
Given that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective on-site extraction ventilation.
Personal protective equipment must bear CE marking certifying conformity with the standards in force.
Provide an emergency shower with an eyewash station.
Exposure levels should be kept as low as possible to avoid significant accumulation in the body. Manage personal protective equipment in order to ensure maximum protection (e.g. reducing replacement times).

Eye protection:
Use goggles/facemask certified UNI EN 166.
Use close fitting safety goggles, don't use eye lens.

Protection for skin:
Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc., according to UNI EN 14325.

Protection for hands:
Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:
Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN

149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.

Thermal Hazards:

None

Environmental exposure controls:

See sections 6 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	**Value**	**Method:**	**Notes**
Physical state:	Liquid	--	--
Colour:	colourless	--	--
Odour:	solvent-like	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	100 °C	--	--
Auto-ignition temperature:	100 °C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm2/ sec (40 °C)	--	--
Viscosity (23°C+-0.5°C)	min 400- max 700	SPECIFIC WEIGHT BY MEANS OF PICNOMETER (gr / cm3).	--
Spindle:	4	--	--
Speed (rpm):	10	--	--
Solubility in water:	insoluble	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--

Vapour pressure:	N.A.	--	--
Density and/or relative density:	2.0100	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction to report under normal conditions of use and storage (refer to section 7.2)

10.2. Chemical stability

The product is stable under normal conditions of use and storage (refer to section 7.2).

10.3. Possibility of hazardous reactions

None under normal conditions of use and storage (refer to section 7.2). Always keep containers tightly sealed.

10.4. Conditions to avoid

Keep away from naked flames, sparks and heat sources. Avoid exposure to direct sunlight.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Gases and vapours potentially harmful to health may be released through thermal decomposition or in the event of fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

BOERO FRESH WATER EU COMP.B

a) acute toxicity

The product is classified: Acute Tox. 4 H302

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1A H317

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified
Based on available data, the classification criteria are not met

g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met

h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met

i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met

j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2

a) acute toxicity
ATE - Oral 1030 mg/kg bw
Test: LD50 - Route: oral - Species: rat = 1030 mg/kg

m-xylylenediamine - CAS: 1477-55-0

a) acute toxicity:
Test: LD50 - Route: oral - Species: rat = 930 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

BOERO FRESH WATER EU COMP.B

The product is classified: Aquatic Chronic 3 - H412

3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 14.6 mg/l - Duration h: 48

e) Plant toxicity:
Endpoint: EC50 - Species: Algae = 37 mg/l - Duration h: 72

12.2. Persistence and degradability

There is no data available on the preparation itself.
N.A.

12.3. Bioaccumulative potential

There is no data available on the preparation itself.
N.A.

12.4. Mobility in soil

There is no data available on the preparation itself.
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. 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.
Directives 91/156/CEE, 91/689/CEE, 94/62/CE.
EWC CODE 080120

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number:	2735
IATA-UN Number:	2735
IMDG-UN Number:	2735

14.2. UN proper shipping name

ADR-Shipping Name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S.
IATA-Shipping Name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S.
IMDG-Shipping Name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S.

14.3. Transport hazard class(es)

ADR-Class:	8
UN no.:	UN 2735
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8
Erg-code:	8L

14.4. Packing group

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

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

IMDG-EmS: F-A , S-B

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): 2 (E)
ADR-Limited Quantities: 1 L
ADR-Excepted Quantities: E2
IATA-Passenger Aircraft: 851
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 855
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: SG35 SGG18

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Regulation (EU) n. 2020/878

Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).

International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

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:

Restriction 75

Restriction 3 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 75 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Where applicable, refer to the following regulatory provisions :

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products. Regulation UE No 649/2012 concerning the export and import of dangerous chemicals. Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.

Directive 2012/18/EU (Seveso III)

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use

of organic solvents in certain paints and varnishes and vehicle refinishing products.
Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.
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 mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:
H317 May cause an allergic skin reaction.

Hazard class and hazard category	**Code**	**Description**
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 14: Transport 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
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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.