

SAFETY DATA SHEET



BO-LA®

Version	Revision Date:	SDS Number:	Date of last issue: -
3.0	06.02.2024	50001113	Date of first issue: 26.09.2019

SECTION 1. IDENTIFICATION

Product name : BO-LA®

Manufacturer or supplier's details

Company : FMC AGRO LIMITED

Address : RECTORS LANE
PENTRE
FLINTSHIRE
CH5 2DH
UNITED KINGDOM
TEL: + 44 1244 537370
E-MAIL: FMC.AGRO.UK@FMC.COM

Emergency telephone : +506-40003869
911

Medical Emergency Number : Costa Rica - National Center of Poisoning - (506) 2223-1028;
800-INTOXICA
Dominican Republic: DOMINICAN REPUBLIC - Center for
Drug Information and Poisoning - (809) 562-6601 Ext. 1801
El Salvador - Rosales National Hospital - (503) 2231-9262
Guatemala - Center of Toxicological Information and
Assistance - (502) 2251-3560 / 2232-0735
Honduras - Hospital School - (504) 232-6105
Nicaragua - National Center of Toxicology - (505) 2289-4700
ext. 1294 cel. 8755-0983
Panama Center of Research and Information on Medications
and Toxicology (507) 523-4948

Recommended use of the chemical and restrictions on use

Recommended use : A fertilizer with micronutrients for use in agriculture and
horticulture

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Category 2

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Serious eye damage/eye irritation : Category 1

Reproductive toxicity : Category 1B

Short-term (acute) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :

The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black silhouette of a person with a starburst on the chest, representing 'Health hazard' (H303). The second is a red diamond with a black icon of a hand being poured onto, representing 'Skin irritation' (H315).

Signal Word : Danger

Hazard Statements : H303 + H313 May be harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
boric acid	10043-35-3	≥ 50 -< 70
2-aminoethanol	141-43-5	≥ 10 -< 20
Molybdic acid, disodium salt, dihydrate	10102-40-6	≥ 1 -< 5

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
If symptoms persist, call a physician.
Wash contaminated clothing before re-use.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May be harmful if swallowed or in contact with skin.
Causes skin irritation.
Causes serious eye damage.
May damage fertility or the unborn child.
Skin contact may result in itching and redness. Eye contact may result in itching, watery eyes, light sensitivity, pain, and/or

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blurred vision.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.
Collect as much of the spill as possible with a suitable absorbent material.
Pick up and transfer to properly labeled containers.
Keep in suitable, closed containers for disposal.

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
boric acid	10043-35-3	TWA (Inhalable fraction)	2 mg/m ³	CR OEL
		Further information: Not classifiable as a human carcinogen		
		STEL (Inhalable fraction)	6 mg/m ³	CR OEL
		Further information: Not classifiable as a human carcinogen		
		TWA (Inhalable particulate matter)	2 mg/m ³ (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m ³ (Borate)	ACGIH

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2-aminoethanol	141-43-5	TWA	3 ppm	CR OEL
		Further information: Eye irritation, Skin irritation		
		STEL	6 ppm	CR OEL
		Further information: Eye irritation, Skin irritation		
		TWA STEL	3 ppm 6 ppm	ACGIH ACGIH
Molybdic acid, disodium salt, dihydrate	10102-40-6	TWA (Respirable fraction)	3 mg/m3 (Molybdenum)	CR OEL
		TWA (Inhalable fraction)	10 mg/m3 (Molybdenum)	CR OEL
		TWA (Respirable fraction)	0,5 mg/m3 (Molybdenum)	CR OEL
		Further information: Confirmed animal carcinogen		
		TWA (Inhalable particulate matter)	10 mg/m3 (Molybdenum)	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3 (Molybdenum)	ACGIH
		TWA (Respirable particulate matter)	0,5 mg/m3 (Molybdenum)	ACGIH

Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Face-shield
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Wear suitable protective equipment.
Ensure that eye flushing systems and safety showers are located close to the working place.
Always have on hand a first-aid kit, together with proper instructions.

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Plan first aid action before beginning work with this product.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not inhale aerosol.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Form	: liquid
Color	: yellowish-brown
Odor	: Faint odour
Odor Threshold	: No data available
pH	: 7,8 - 8,5 Concentration: 100 %
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not determined, but expected to be > 95°C
Evaporation rate	: No data available
Self-ignition	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 1,34 - 1,36

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Density : No data available

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Molecular weight : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.
Avoid extreme temperatures.
Avoid formation of aerosol.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition products : toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful if swallowed or in contact with skin.

Product:

Acute oral toxicity : Acute toxicity estimate: 2.399 mg/kg
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: 3.174 mg/kg
Method: Calculation method

Components:

boric acid:

Acute oral toxicity : LD50 (Rat, male): > 2.600 mg/kg
Method: OECD Test Guideline 401
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,03 mg/l
Exposure time: 5 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg
Remarks: no mortality

2-aminoethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 1.515 mg/kg

LD50 Oral (Rat, male and female): 1.089 mg/kg
Symptoms: Fatality

Acute inhalation toxicity : LC0 (Rat, male and female): 1,3 mg/l
Exposure time: 6 h
Test atmosphere: vapor
Remarks: no mortality
Highest attainable concentration.

Acute dermal toxicity : LD50 (Rabbit, male): 2.504 mg/kg
Symptoms: Fatality, Necrosis, Erythema, Lethargy

LD50 (Rabbit, female): 2.881 mg/kg
Symptoms: Fatality, Necrosis, Erythema, Lethargy

Skin corrosion/irritation

Causes skin irritation.

Product:

Assessment : Irritating to skin.
Remarks : Expert judgment

Components:

boric acid:

Species : Rabbit
Result : No skin irritation

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2-aminoethanol:

Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks	:	May cause irreversible eye damage.
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Components:

boric acid:

Species	:	Rabbit
Result	:	slight irritation

2-aminoethanol:

Species	:	Rabbit
Result	:	Corrosive

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

boric acid:

Test Type	:	Buehler Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

2-aminoethanol:

Test Type	:	Maximization Test
Routes of exposure	:	Intradermal
Species	:	Guinea pig
Result	:	Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

boric acid:

Genotoxicity in vitro	:	Test Type: reverse mutation assay
		Result: negative

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Test Type: sister chromatid exchange assay
Result: negative

Test Type: gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

2-aminoethanol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified due to lack of data.

Components:

boric acid:

Species : Mouse, male and female
Application Route : Oral
Exposure time : 103 weeks
Dose : 0, 446, 1150mg/kg/bw/day
: > 1.150 mg/kg bw/day
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

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Reproductive toxicity

May damage fertility or the unborn child.

Components:**boric acid:**

- Effects on fertility : Test Type: Three-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 5.9, 17.5, 58.5(mgb)/kg/bw/d
General Toxicity Parent: LOAEL: 58,5 mg/kg bw/day
General Toxicity F1: LOAEL: 58,5 mg/kg bw/day
General Toxicity F2: LOAEL: 58,5 mg/kg bw/day
Result: negative
- Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 3.3, 6.3, 9.6, 13.3, 25mg/kg
General Toxicity Maternal: LOAEL: 13,3 mg/kg bw/day
Embryo-fetal toxicity.: NOAEL: >= 12,9 mg/kg bw/day
Method: OECD Test Guideline 414
Result: negative
- Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

2-aminoethanol:

- Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 100, 300, 1000 mg/kg bw/day
General Toxicity Parent: LOAEL: 1.000 mg/kg bw/day
General Toxicity F1: NOAEL: 1.000 mg/kg bw/day
General Toxicity F2: NOAEL: 1.000 mg/kg bw/day
Method: OECD Test Guideline 416
Result: negative
- Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 0, 40, 120, 450 mg/kg/bw
General Toxicity Maternal: LOAEL: 450 mg/kg bw/day
Teratogenicity: NOAEL: >= 450 mg/kg bw/day
Symptoms: Maternal effects.
Method: OECD Test Guideline 414
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT-single exposure

Not classified due to lack of data.

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Components:**2-aminoethanol:**

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Components:**boric acid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****boric acid:**

Species : Rat, male and female
LOAEL : 58.5 mg/kg bw/day
Application Route : Oral - feed
Exposure time : 2 years
Dose : 0, 5.9, 17.5, 58.5mg/kg/bw/d

Species : Rat, female
NOAEC : 0,47 mg/l
Application Route : inhalation (dust/mist/fume)
Dose : .077, .175, .47 mg/l

2-aminoethanol:

Species : Rat, male and female
LOAEL : 1000 mg/kg bw/day
Application Route : Oral
Exposure time : >75d
Dose : 100, 300, 1000 mg/kg bw/day

Species : Rat, male and female
NOAEC : 0,01 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28d
Dose : 0.01, 0.05, 0.15mg/l
Method : OECD Test Guideline 412

Species : Rat, male and female
NOEC : 0,15 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28d
Dose : 0.01, 0.05, 0.15mg/l

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Method : OECD Test Guideline 412

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

boric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Based on data from similar materials

LC50 (Limanda limanda): 74 mg/l
Exposure time: 96 h
Test Type: flow-through test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 102 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 40,2 mg/l
Exposure time: 74,5 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 17,5 mg/l
Exposure time: 74,5 h
Method: OECD Test Guideline 201

LOEC: 3,6 mg/l
Exposure time: 10 d
Test Type: semi-static test

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 6,4 mg/l
Exposure time: 34 d
Method: OECD Test Guideline 210

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 6,4 mg/l
Exposure time: 21 d
Test Type: semi-static test

Toxicity to microorganisms : EC50 (activated sludge): > 175 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

NOEC (activated sludge): 17,5 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 175 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

NOEC (Eisenia fetida (earthworms)): >= 175 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

2-aminoethanol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 349 mg/l
Exposure time: 96 h
Method: Tested according to Directive 92/69/EEC.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 65 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): 2,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : LOEC (Oryzias latipes (Japanese medaka)): 3,55 mg/l
Exposure time: 41 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,85 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202

Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l
Exposure time: 0,5 h
Method: OECD Test Guideline 209

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Persistence and degradability

Components:

2-aminoethanol:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Method: OECD Test Guideline 301A

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

boric acid:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): < 0,1
Exposure time: 60 d

Partition coefficient: n-octanol/water : log Pow: -1,09 (22 °C)

2-aminoethanol:

Bioaccumulation : Bioconcentration factor (BCF): 9,2
Method: QSAR
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -2,3 (25 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

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Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

It is prohibited to reuse, bury, burn, or sell containers.
Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

This safety data sheet has been prepared in accordance with Costa Rican legislation RTCR 481: 2015 and RTCR 478:2015.

Law on Narcotics, Psychotropic Substances, Drugs of : Not applicable
Unauthorized Use, Money-Laundering and Related
Activities.

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The ingredients of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. COCOAMIDOPROPYL BETAINE 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., hydroxides, inner salts
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date	:	06.02.2024
Date format	:	dd.mm.yyyy

Further information

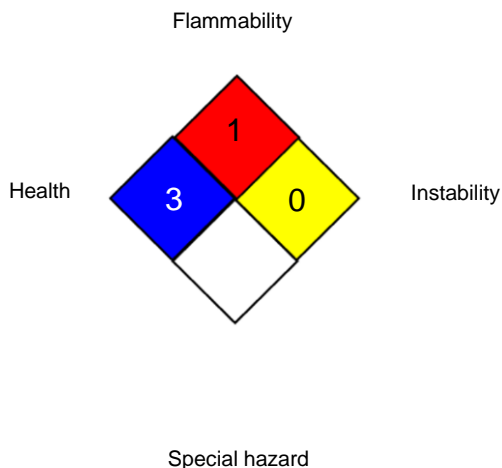
SAFETY DATA SHEET



BO-LA®

Version	Revision Date:	SDS Number:	Date of last issue: -
3.0	06.02.2024	50001113	Date of first issue: 26.09.2019

NFPA:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
CR OEL : Costa Rica. Maximum allowable occupational exposure limits in the workplace.

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
CR OEL / TWA : Time weighted average 8-hr value
CR OEL / STEL : Short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution

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Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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