

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

1.1. Product identifier

Product name : TOPBUXUS Restore & Protect Mix

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

1.2.1. Relevant identified uses

Main use category : Consumer use of fertilisers.

Use of the substance/preparation : Foliar fertiliser presented as an effervescent tablet, soluble in water. Spray the solution on the Boxwood's leaves.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Topbuxus Growing Solutions BV
Markweg 5
4856 AC Strijbeek - The Netherlands
T +31765651158
info@topbuxus.com - www.topbuxus.com

1.4. Emergency telephone number

Country	Official advisory body	Emergency number
USA	Poison Control Center	1-800-222-1222

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Classification: Eye Irrit. 2, H319

Full text of H-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according Regulation (EC) No. 1272/2008

Hazard symbols :



GHS07

Signal word: : Warning

Hazard statements : H319 - Causes serious eye irritation.

Precautionary statements :
P264 - Wash skin thoroughly after handling.
P280 - Wear eye protection/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.
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 Dispose of contents/container in accordance with local/national regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citric Acid	(CAS No.) 77-92-9 (EC no) 201-069-1	10 - 25	Eye Irrit. 2, H319
copper oxychloride	(CAS No.) 1332-40-7 (EC no) 2155729	5 - 10	Not classified

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical advice. Rinse with water.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with mild soap and water. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Sensitisation : contact can provoke allergic reactions in humans.
Symptoms/injuries after skin contact	: Repeated exposure may cause sensitization due to an allergic reaction of the skin.
Symptoms/injuries after eye contact	: Irritation of the eye tissue.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water. Powder. Foam.
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5.2. Special hazards arising from the substance or mixture

Reactivity	: On heating/burning: release of toxic and corrosive gases/vapours (hydrogen chloride).
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5.3. Advice for firefighters

Protection during firefighting	: Wear suitable protective clothing. Wear a self contained breathing apparatus.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Keep upwind.
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6.1.1. For non-emergency personnel

Protective equipment	: Protective clothing.
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6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing. Wear respiratory protection.
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6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: sand, earth, vermiculite, diatomaceous earth Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
Methods for cleaning up	: Rinse with plenty of water.

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Avoid contact with the skin and the eyes.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Protect from moisture, extremely high or low temperatures. Keep away from heat and direct sunlight. Keep out of the reach of children. Smoking, eating and drinking should be prohibited in areas of storage and use.

7.3. Specific end use(s)

Foliar fertiliser for Buxus.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Wear protective gloves.

Eye protection : Tightly sealed safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : With correct and proper use, and under normal conditions, breathing protection is not required. In case of insufficient ventilation, wear suitable respiratory equipment.

Other information : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Green.

Odour : Mild odour.

Odour threshold : No data available

pH : No data available

Melting point : No data available

Solidification point : No data available

Boiling point : No data available

Flash point : No data available

Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : Not highly flammable

Explosive limits : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1,75 g/cm³

Solubility : Material soluble in water.

Log Pow : No data available

Log Kow : No data available

Self ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : Non explosive

Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating/burning: release of toxic and corrosive gases/vapours (hydrogen chloride).

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Citric Acid (77-92-9)

LD50 oral rat	11700 mg/kg
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Irritation : Irritating to eyes.

Corrosivity : Not classified

Sensitisation : May cause sensitization by inhalation and skin contact.

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Reproductive toxicity : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of in accordance with relevant local regulations.

SECTION 14: Transport information

14.1. UN number

Not regulated as a hazardous material or dangerous goods for transportation.

14.2. UN proper shipping name

Not regulated as a hazardous material or dangerous goods for transportation.

14.3. Transport hazard class(es)

Not regulated as a hazardous material or dangerous goods for transportation.

14.4. Packing group

Not regulated as a hazardous material or dangerous goods for transportation.

14.5. Environmental hazards

The mixture has no environmental hazards.

14.6. Special precautions for user

Not regulated as a hazardous material or dangerous goods for transportation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not regulated as a hazardous material or dangerous goods for transportation.

14.8. Dangerous goods description on transport document

Not regulated as a hazardous material or dangerous goods for transportation.

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14.9. Other information

Not regulated as a hazardous material or dangerous goods for transportation.

SECTION 15: Regulatory information

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

15.1.1 National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information : Disclaimer:
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-phrases:

H319	Causes serious eye irritation.
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.