

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

1.1. Product identifier

Product name : Topbuxus Healthmix

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

1.2.1. Relevant identified uses

Main use category : Booklet manure substance for Buxus (especially consumer market)
 Use of the substance/preparation : booklet manure substance in a effervescent tablet which solves after in water is spouted on the booklet. Gleaming booklet ensures stronger buxus plants and soft green leaf.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Topbuxus BV
 Markweg 5
 4856 AC Strijbeek - Nederland
 T +31765651158 - F +31765613813
info@topbuxus.com - www.topbuxus.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
NETHERLANDS	National Poisons Information Centre National Institute for Public Health and the Environment, NB this service is only available to health professionals	P.O. Box 1 3720 BA Bilthoven	+31 30 274 88 88

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R42
 Xi; R36
 Xi; R43

Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



Hazardous ingredients : copper oxychloride
 R-phrases : R36 - Irritating to eyes.
 R42/43 - May cause sensitization by inhalation and skin contact.
 S-phrases : S22 - Do not breathe dust.
 S24 - Avoid contact with skin.
 S37 - Wear suitable gloves.
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S35 - This material and its container must be disposed of in a safe way.
 S46 - If swallowed, seek medical advice immediately and show this container or label.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to Regulation (EC) No. 453/2010

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Citric Acid	(CAS No.) 77-92-9 (EC no) 201-069-1	10 - 25	Xi; R36
copper oxychloride	(CAS No.) 1332-40-7 (EC no) 2155729	10 - 25	Xn; R42 Xi; R36 Xi; R43
boric acid substance listed as REACH Candidate (Boric acid)	(CAS No.) 11113-50-1 (EC no) 234-343-4	< 1	Not classified
Manganese sulphate	(CAS No.) 7785-87-7 (EC no) 232-089-9 (EC index no) 025-003-00-4	< 1	Xn; R48/20/22 N; R51/53

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	10 - 25	Not classified
boric acid substance listed as REACH Candidate (Boric acid)	(CAS No.) 11113-50-1 (EC no) 234-343-4	< 1	Not classified
Manganese sulphate	(CAS No.) 7785-87-7 (EC no) 232-089-9 (EC index no) 025-003-00-4	< 1	STOT RE 2, H373 Aquatic Chronic 2, H411

Full text of R-, 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.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

- Protection during firefighting : Wear suitable protective clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep upwind.

6.1.1. For non-emergency personnel

- Protective equipment : Protective clothing.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing. Wear respiratory protection.

6.2. Environmental precautions

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

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according to Regulation (EC) No. 453/2010

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.
- Precautions for safe handling : Provide adequate ventilation. Avoid generation of dust.

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)

Booklet manure substance for Buxus (especially consumer market).

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 suitable 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) : No data available
- 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/m³
- Solubility : Material insoluble 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 : No data available

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according to Regulation (EC) No. 453/2010

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

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

boric acid (11113-50-1)

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

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

No dangerous good in sense of transport regulations.

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No Annex XVII restrictions

Contains REACH Candidate List substance(s): Boric acid (EC 234-343-4, CAS 11113-50-1)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information

: REACH 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 R-, H- and EUH-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
R36	Irritating to eyes.
R42	May cause sensitization by inhalation.
R43	May cause sensitisation by skin contact.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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.