

SAFETY DATA SHEET

Date of Issue: Dec 2019

Revision: Dec 2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1. Product identifier

ROSE GUARD ROSE TONIC

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

Identified uses Plant Tonic

1.3. Details of the supplier of the safety data sheet

Vitax Limited, Owen Street, Coalville LE67 3DE
Tel: +44 (0)1530 510060 Email: info@vitax.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)1530 510060 Mon - Fri 9am - 5pm
In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Eye Irrit. 2: H319.
Environmental hazards Not Classified

2.2. Label elements

Pictogram
Signal word
Hazard statement.
Precautionary statements



Warning
H319: Causes serious eye irritation.
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists: Get medical attention.
This substance is not classified as PBT or vPvB according to current EU criteria.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	CLP Classification	Concentration [%]
MONOPOTASSIUM PHOSPHITE LIQUID 0-30-20	13977-65-6	-	Eye Irrit. 2: H319	50-70%
COPPER EDTA	14025-15-1	01-2119963944- 23-0002	Eye Irrit. 2: H319; Acute Tox. 4: H302	<1%
ACTICIDE MBL	-	-	Skin Corr. 1B: H314; Aquatic Acute 1: H400; Skin Sens. 1: H317; Aquatic Chronic 2: H411; Eye Dam. 1: H318	<1%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Remove to fresh air. Get medical attention if symptoms persist.
Ingestion Wash out mouth with water. Get medical attention.
Skin contact Wash skin thoroughly with soap and water. Get medical attention if symptoms persist.
Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.

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

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

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

Notes for the doctor No relevant data available.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Specific hazards In combustion emits toxic fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters
Wear self-contained respiratory protective equipment and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: No specific requirements.

7.3. Specific end use(s)

Specific end use(s) See Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limits No relevant data available.

DNEL/PNEC Values COPPER EDTA

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1.8	Workers	Local
DNEL	Dermal	3750	Workers	Local
DNEL	Inhalation	0.45	General Population	Local
DNEL	Dermal	1875	General Population	Local
PNEC	Oral	0.375	General Population	Local
PNEC	Fresh water	2.95	General Population	Local
PNEC	Marine water	0.3	General Population	Local
PNEC	Microorganisms in sewage treatment	65.4	General Population	Local
PNEC	Soil (agricultural)	0.21	General Population	Local

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection:	Protective gloves.
Eye protection:	Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Environmental:	No special requirement.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Brown
Odour:	Barely perceptible odour
Evaporation rate:	No data available.
Oxidising:	No data available.
Solubility in water:	No data available.
Viscosity:	No data available.
Boiling point/range°C:	No data available.
Melting point/range°C:	No data available.
Flammability limits %:lower:	No data available.
upper:	No data available.
Flash point°C:	No data available.
Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.
Vapour pressure:	No data available.
Relative density:	1.20 - 1.24 kg/l
pH:	2.5 - 3.5
VOC g/l:	No data available.

9.2. Other information

Other information	No relevant data available.
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid Heat.

10.5. Incompatible materials Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

Monopotassium phosphite

EC no: 604-162-9 CAS 13977-65-6	Hazard category: Eye Irrit. 2
	Hazard statement: H319: Causes serious eye irritation.
Acute oral rat	LD50 > 2000 mg/Kg bw
Acute dermal rat	LD50 > 5000 mg/Kg bw
Skin irritation in vitro EPISKIN™	mean cell viability (92.1%); non irritant
Eye irritation: in vitro MTT test	mean cell viability c47% Slight eye irritation (>50% = non irritant)

COPPER EDTA

DUST/MIST RAT 4H LC50	>5.32 mg/kg
ORAL RAT LD50	890 mg/kg

ACTICIDE MBL

DERMAL RAT LD50	>2000 mg/kg
DUST/MIST RAT 4H LC50	>5 mg/kg
ORAL RAT LD50	2001-5000 mg/kg

Toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Serious eye irritation (by calculation).
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity –development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard.	
Relevant hazards for product:	Serious eye irritation (by calculation)

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity****Hazardous ingredients:****COPPER EDTA**

FISH 96H LC50 555 mg/l

ACTICIDE MBL

ALGAE 72H EC50 0.157 mg/l

BLUEGILL (*Lepomis macrochirus*) 96H LC50

35.7 mg/l

DAPHNIA 48H EC50 1.68 mg/l

GREEN ALGA (*Selenastrum capricornutum*) 72H EC10

0.04 mg/l

GREEN ALGA (*Selenastrum capricornutum*) 72H EC50

0.11 mg/l

RAINBOW TROUT (*Oncorhynchus mykiss*) 96H LC

50.6 mg/l

12.2. Persistence and degradability

Persistence and degradability Biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Mobility Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No relevant data available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

General

This product does not require a classification for transport.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

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- 14.4. Packing group** Not applicable.
14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.
14.6. Special precautions for user Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
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SECTION 15: REGULATORY INFORMATION

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

- 15.2. Chemical safety assessment** No chemical safety assessment has been carried out.
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SECTION 16: OTHER INFORMATION

Reason for Revision Replaces SDS dated Dec 2019. Amendment to section 1 & 11, page numbers added.

Phrases used in s.2 and s.3:
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Liability The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.