

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

1.1. Product identifier

Product name: ROSE FEED AND SHINE

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

Use of substance / mixture: Use as a horticultural / amenity fertiliser

1.3. Details of the supplier of the safety data sheet

Company name: E.Marker A/S

Okslundvej 8

DK-6330

Padborg

Denmark

Tel: +45 74 67 08 08

Fax: +45 79 30 41 90

Email: info@emarker.dk

1.4. Emergency telephone number

Emergency tel: +45 74 67 08 08

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Dam. 1: H318; -: EUH208

Most important adverse effects: Contains citronella oil, clove leaf oil. May produce an allergic reaction. Causes serious eye damage.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains citronella oil, clove leaf oil. May produce an allergic reaction.

H318: Causes serious eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 2

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 or doctor.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PRIMESURF APG-HN

EINECS	CAS	PBT / WEL	CLP Classification	Percent
500-220-1	68515-73-1	-	Eye Dam. 1: H318	10-30%

COPPER EDTA - REACH registered number(s): 01-2119963944-23-0002

-	14025-15-1	-	Eye Irrit. 2: H319; Acute Tox. 4: H302	1-10%
---	------------	---	--	-------

CITRONELLA OIL - REACH registered number(s): 17-2119893990-21-0000

294-954-7	91771-61-8 / 8000-29	-	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318; Aquatic Chronic 3: H412; Aquatic Chronic 2: H411	<1%
-----------	-------------------------	---	---	-----

CLOVE LEAF OIL - REACH registered number(s): NOT PRE-REGISTERED

284-638-7	84961-50-2 / 8000-34	-	Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319	<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

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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.

[cont...]

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 3

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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

Clean-up procedures: 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: Refer to section 8 of SDS.

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.

[cont...]

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 4

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

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
DNEL	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.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Dark green

Odour: Characteristic 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.

[cont...]

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 5

Autoflammability°C: No data available.

Relative density: 1.12 - 1.16 kg/l

VOC g/l: No data available.

Part.coeff. n-octanol/water: No data available.

Vapour pressure: No data available.

pH: 6.5 - 8.0

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

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

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

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

[cont...]

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 6

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

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.

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 (<i>Lepomis macrochirus</i>)	96H LC50	35.7	mg/l
DAPHNIA	48H EC50	1.68	mg/l
GREEN ALGA (<i>Selenastrum capricornutum</i>)	72H EC10	0.04	mg/l
GREEN ALGA (<i>Selenastrum capricornutum</i>)	72H EC50	0.11	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	6	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

[cont...]

SAFETY DATA SHEET

ROSE FEED AND SHINE

Page: 7

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

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.