

SAFETY DATA SHEET

SM-1 Inhibitor

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

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| 1.1 | Product identifier | Scalemaster SM-1 Inhibitor |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | Domestic central heating inhibitor.
Not suitable for use in PRIMATIC single feed cylinders. |
| 1.3 | Details of the supplier of the safety data sheet | Scalemaster Limited
Emerald Way
Stone Business Park
STONE
Staffordshire ST15 0SR
Tel: 01785 811636
Email: info@scalemaster.co.uk
Web:www.scalemaster.co.uk |
| 1.4 | Emergency telephone number | Tel: 01785 811636.
Only available during office hours. |

SECTION 2: Hazards identification

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|-----|--|---|
| 2.1 | Classification of the substance or mixture | |
| | Classification according to regulation (EC) No 1272/2008 (CLP) | This product has no classification under CLP. |
| | Additional information | |
| 2.2 | Label elements | |
| | According to regulation (EC) No 1272/2008 (CLP) & (EU) No 453/2010 | This product has no label elements. |
| | Hazard pictograms | |
| | Signal words | |
| | Hazard statements | |
| | Precautionary statements | |
| 2.3 | Other hazards | This product is not identified as a PBT/vPvB substance. |

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS No	EINECS	% w/w	PBT/WEL	(EC) No 1272/2008 classification
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SODIUM NITRATE

7631-99-4	231-554-3	1-10%	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Ox. Sol. 3: H272
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BENZOTRIAZOLE

95-14-7	202-394-1	<1%	-	Acute Tox. 4: H302+332; Eye Irrit. 2: H319; Aquatic Chronic 3: H412
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Additional information

For full text of each hazard statement see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Following inhalation	Consult a doctor if there are symptoms.
Following skin contact	Wash immediately with plenty of soap and water.
Following eye contact	Bathe the eye with running water for 15 minutes.
Following ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation	No symptoms.
Following skin contact	There may be mild irritation at the site of contact.
Following eye contact	There may be irritation and redness.
Following ingestion	There may be irritation of the throat.
Delayed/immediate effects	No data available.

4.3 Identification of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1 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	In combustion emits toxic fumes.
5.3 Advice for firefighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

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|-----|---|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Refer to section 8 of the SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. |
| 6.2 | Environmental precautions | Contain the spillage using bunding. |
| 6.3 | Methods and material for containment and 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 | Refer to section 8 of SDS. |

SECTION 7: Handling and storage

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|-----|--|---|
| 7.1 | Precautions for safe handling | Ensure there is sufficient ventilation of the area. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store in a cool, well ventilated area. Keep container tightly closed. Do not allow to freeze. |
| | Suitable packaging | Plastic. |
| 7.3 | Specific end use(s) | |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients

SODIUM NITRATE

Workplace exposure limits			Respirable dust	
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min STEL
EU	4	-	-	-

DNEL/PNEC

No data available.

8.2 Exposure controls

Appropriate engineering controls

Avoid spilling, skin and eye contact.

Individual protection measures such as personal protective equipment

Respiratory protection

Respiratory protection not required.

Hand protection

Protective gloves.

Eye protection

Safety glasses. 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	Pale brown.
Odour	Slightly aromatic.
pH	7.6 - 8.2
Relative density	1.03 - 1.05
Solubility	Miscible.

9.2 Other information No data available.

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 will not occur under normal transport or storage conditions.
10.4	Conditions to avoid	Freezing conditions.
10.5	Incompatible materials	None known.
10.6	Hazardous decomposition products	In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

SODIUM NITRATE

ORAL	RAT	LD50	1267	mg/kg
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BENZOTRIAZOLE

DERMAL	RAT	LD50	>1,000	mg/kg
DUST/MIST	RAT	4H LC50	1.4	mg/l
ORAL	RAT	LD50	560	mg/kg

Toxicity values No data available

Symptoms/routes of exposure

Ingestion (swallowing) There may be irritation of the throat.

Inhalation No symptoms.

Skin contact There may be mild irritation at the site of contact.

Eye contact There may be irritation and redness.

Delayed/immediate effects No data available.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

SODIUM NITRATE

Daphnia magna	48H EC50	8,600	mg/l
FISH	96H LC50	>4,000	mg/l

BENZOTRIAZOLE

BLUEGILL (Lepomis macrochirus)	96H LC50	25	mg/l
Daphnia magna	48H EC50	91	mg/l

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

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

Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations

Not applicable.

Recovery operations

Not applicable.

Disposal of packaging

Dispose of as normal industrial waste.

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

Not applicable.

15.2 Chemical safety assessment

SECTION 16: Other information

Indication of changes

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

Abbreviations and acronyms

ACLG	Approved Classification and Labelling Guide
CAS No	Chemical Abstracts Service Number
CLP	Classification, Labelling and Packaging Regulations (EC) 1272/2008
DNEC	Derived No Effect Level
EC No	EINECS number
EC50	Concentration that causes 50% of maximum effect in stated time period
EINECS	European Inventory of Existing Commercial Substances
LD50 (LC50)	Lethal dose (or concentration) at which 50% of the population will be killed in stated time period
LTEL	Long Term Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic Substances
PNEC	Predicted No Effect Level
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
SVHC	Substances of Very High Concern
TWA	Time Weighted Average
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

Literature references and sources of data

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Full text of hazard statements listed in Section 3.

H272: May intensify fire; oxidiser.
 H302: Harmful if swallowed.
 H302+332: Harmful if swallowed or if inhaled.
 H319: Causes serious eye irritation.
 H412: Harmful to aquatic life with long lasting effects.

This information is based on the present state of our knowledge.

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.