SAFETY DATA SHEET

Instinct Pro IN-100 Concentrate Corrosion Inhibitor

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

1.1	Product identifier	Instinct Pro in partnership with Scalemaster IN-100 Concentrate Corrosion Inhibitor – 250ml
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

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
SODIUM NITRATE				
7631-99-4	231-554-3	1-10%	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Ox. Sol. 3: H272
BENZOTRIAZOLE				
95-14-7	202-394-1	1-10%	-	Acute Tox. 4: H302+332; Eye Irrit. 2: H319; Aquatic Chronic 3: H412

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

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

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	Brown.
Odour	Slightly aromatic.
pH	7.6 - 8.2
Relative density	1.16 - 1.18
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

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
EINECS	European Inventory of Existing Commercial Substances
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
SVHC	Substances of Very High Concern
TWA	Time Weighted Average
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

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.

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.