

COSHH SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Supplier:

SCALEMASTER®

D.A.W. Enterprises Ltd
Unit 6, Stone Business Park
Stone, Staffordshire ST15 0SR
Tel: 01785 811636

INHIBITOR SM-1

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

No hazardous ingredients

THIS PRODUCT CONTAINS AMONGST OTHER INGREDIENTS:

15-30% Phosphonate

3. HAZARDS IDENTIFICATION

Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES

EYES: Immediately flush with eye wash solution or clean water for at least 10 minutes.

SKIN: Wash the affected area with plenty of water.

INGESTION: GET MEDICAL ATTENTION – Drink copious amounts of water or milk.

INHALATION: Non volatile liquid product.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Product is non combustible.

SPECIAL HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear rubber gloves if prolonged contact with concentrated liquid.

ENVIRONMENTAL PRECAUTIONS:

No particular/specific measures required.

SPILLAGE TREATMENT:

Small spillage: Wash to drain with large amounts of water.

Large spillage: Mix with sand or earth and remove to suitable container for transfer to an approved chemical tip or alternatively flush to drain with copious quantities of water.

7. HANDLING AND STORAGE

HANDLING: Avoid spilling. Avoid contact with skin or eyes.

STORAGE: Store in secure chemical area at ambient temperature.

PACKAGING: Supplied in 1 litre approved plastic containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



GENERAL: No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety. Avoid contact with eyes, skin or clothes.

PERSONAL PROTECTION: The following personal protective equipment should be provided.

SKIN PROTECTION: Wear appropriate protective clothing.

HAND PROTECTION: Impervious gloves particularly if prolonged contact.

EYE PROTECTION: Chemical safety goggles.

All personal protective equipment must comply with EEC standards and be maintained to ensure suitability for use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colourless liquid

ODOUR: None

RELATIVE DENSITY: ~1.15

WATER SOLUBILITY: Miscible with water in all proportions.

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal storage conditions.

CONDITIONS TO AVOID: Protect from frost.

MATERIALS TO AVOID: None.

DECOMPOSITION PRODUCTS: No typical hazardous reactions or decomposition products known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Non hazardous substance if used correctly.

EYES: Mild irritation on contact, unlikely to cause eye damage.

SKIN: Prolonged contact may give rise to dermatitic effect.

INGESTION: No known adverse effects.

INHALATION: No inhalation hazard.

12. ECOLOGICAL INFORMATION

MOBILITY: Readily dissolves in water.

DEGRADABILITY: > 98% biodegradable.

ACCUMULATION: No information available.

ECOTOXICITY: No adverse effects.

13. DISPOSAL CONSIDERATIONS

Wear appropriate protective clothing. Soak up with sand or earth and remove to suitable container for transfer to chemical tip.

Alternatively flush to drain with copious quantities of water.

Disposal should be in accordance with waste disposal or water authority regulations.

14. TRANSPORT INFORMATION

Not classified as hazardous under Carriage of Dangerous Goods by Road and Rail (C.P.L2) Regulations.

Only transport in original containers in upright position.

Never remove containers from cardboard cartons before transporting. Unless containers are palletised never transport stacked more than two high.

15. REGULATORY INFORMATION

Chemicals (Hazard Information and Packaging for Supply) Regulations Classification: Non Hazardous

Safety Phrases: **S2** Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with the eyes rinse immediately with plenty of water and seek medical advice.
S46 If swallowed, seek medical advice immediately and show this container or label.

Use of this product may be governed by the following regulations:
Chemical Hazard Information and Packaging Regulations,
Carriage of Dangerous Goods by Road and Rail (C.P.L.2) Regulations,
Control of Substances Hazardous to Health Regulations.

16. OTHER INFORMATION

This product is an inhibitor for new and existing central heating systems to prevent the build up of Scale, Corrosion or Bacteria growth.

This product is registered with the National Poison Information Service. Medical staff can obtain additional health and safety information from this service by telephoning 0207 635 9191.
New Cross Hospital, Avonley Road, London SE14 5ER.

The information given is based on our knowledge of the product at the time of publication. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

Issued No. SM-1/5

Date. 23.02.01

TECHNICAL INFORMATION

INHIBITOR SM-1

An Inhibitor for new and existing central heating systems to prevent Scale, Corrosion, Bacteria and protect the system.

TECHNICAL DATA

This product is manufactured by a two-stage chemical process in which zinc salts are reacted with phosphonic acid to produce a near neutral salt in solution of zinc phosphonate.

Such salts have been tested and results published in the technical literature show outstanding scale inhibition and anti-microbial properties.

CENTRAL HEATING CONTROL EQUIPMENT Distortion of Rubber Valve Discs

The rubber valve discs generally used in control equipment have in some cases been affected by Inhibitors. This is thought to be due to the chemical formulation combining with the mineral oils found in radiators and distorting the discs.

Tests have shown that SM-1 Inhibitor chemical formulation does not cause this problem.

DOSE RATE

All bottles contain 1 litre. This is suitable for an average 10 radiator domestic central heating system holding 100 litres of water at a minimum dose of a 1% solution. The product is compatible with aluminium and no problems can occur through over dosage or mixing with other Scalemaster® products.

APPLICATION

Both New and Existing systems should be cleaned and flushed out in accordance with BS7593 using Non-Acid Cleaner or Sludge Remover prior to applying Inhibitor. Dose via feed and expansion tank or via a radiator as per BS7593. LEAVE IN system.

It is recommended that Inhibitor is used in conjunction with Non-Acid De-Scaler in hardwater areas.

MAINTENANCE

Label the system with product name and date of application.

Check at 12 monthly intervals to establish that the 1% minimum solution strength is maintained and top up with Inhibitor and/or Non-Acid De-Scaler accordingly if necessary.

HEALTH AND SAFETY

SM-1 is compatible with other commercially available inhibitors

D.A.W. Enterprises Limited trading as

