

SAFETY DATA SHEET



Product Name: **STAIN AND SCALE INHIBITOR**

SDS Reference **056**

Version No. **1**

Revision date

Authorisation date **January 11th, 2002**

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name RELAX STAIN AND SCALE INHIBITOR

Synonym (s)

Company Identification

PLASTICA LTD

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Emergency Telephone

0845 6013142 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation Aqueous solution of an organic acid

| <u>Chemical name</u> | <u>CAS-No</u> | <u>EINECS/ELINCS</u> | <u>Classification</u> | <u>Concentration</u> |
|---|---------------|----------------------|-----------------------|----------------------|
| NITRILOTRIS (METHYLENE PHOSPHONIC ACID) | 6419-29-8 | 229-146-5 | C: R34 | 25-30% |

3. HAZARDS IDENTIFICATION

Physical & Chemical:



CORROSIVE

Health:

CAUSES BURNS.

Environmental:

ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO BE HARMLESS TO THE ENVIRONMENT IF HANDLED IN THE CORRECT MANNER.

4. FIRST AID MEASURES

General information

Remove contaminated clothing immediately, to be disposed of or washed before re-use.

Inhalation

Remove casualty to fresh air and provide warmth and rest. If necessary, seek medical advice.

Skin contact

Clean areas of skin affected immediately with plenty of water. If necessary, seek medical advice.

Eye contact

Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.

Ingestion

Allow the patient to vomit on his own accord. Give copious water to drink.

Further information

Beware of aspiration if vomiting occurs.

Product Name:

STAIN AND SCALE INHIBITOR

SDS Reference 056

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| General hazard | THE PRODUCT IS NOT FLAMMABLE |
| Extinguishing media | To suit local surroundings (e.g. water spray, foam, dry chemical powder) |
| Extinguishing media not to be used | |
| Special exposure hazards | The thermal decomposition products released should be considered toxic if inhaled. |
| Protective equipment | Wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-------------------------------------|--|
| Methods for cleaning up | Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust into a suitable container; dispose of as prescribed. |
| Environmental considerations | Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. |
| Further information | |

7. HANDLING & STORAGE

| | |
|--------------------------------|---|
| Advice on safe handling | Handle in accordance with good hygiene and safety practice. |
| Storage conditions | Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry away from foodstuffs. Store in original containers. |
| Further information | |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------------|--|
| Exposure controls | There are no occupational exposure limit values appropriate to the product LTEL (8 hour TWA): ppm mg/m ³ STEL (15 min): ppm mg/m ³ |
| Engineering controls | Ensure adequate ventilation of working area Provide local exhaust ventilation. |
| Personal protection | Observe normal standards for handling chemicals. Avoid eye and skin contact. Wash thoroughly after handling (shower if necessary). Wear personal protective equipment appropriate to the task (see below) |
| Eye protection | Safety goggles or face shield (i.e. EN 166 approved) |
| Skin protection | PVC or natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken) |
| Respiratory protection | Respirator if ventilation is insufficient (e.g. EN 149 FFP2) |
| Other protection | Protective overall, boots |

9. PHYSICAL & CHEMICAL PROPERTIES

Product Name:

STAIN AND SCALE INHIBITOR

SDS Reference 056

| | |
|--------------------|--------------------------------|
| Physical form | Liquid |
| Colour | Pale yellow |
| Odour | Characteristic |
| pH | Not determined. |
| Boiling pt / range | From 100 °C |
| Melting pt / range | °C |
| Flash point | °C |
| Auto flammability | °C |
| Density | |
| Explosive limits | Lower: % (v/v) Higher: % (v/v) |
| Viscosity | |
| Water solubility | Miscible |

10. STABILITY & REACTIVITY

| | |
|----------------------------------|---|
| Stability: | Stable under normal conditions. |
| Materials to avoid: | Metals. Strong alkalis. Aluminium. Magnesium. |
| Hazardous reactions | Exothermic reaction with alkalis. Reacts with aluminium and magnesium with hydrogen evolution. |
| Hazardous decomposition products | Carbon dioxide, hydrogen (can form explosive mixtures in air). Decomposes in fire producing toxic oxides of phosphorus and carbon |

11. TOXICOLOGICAL INFORMATION

| | | | |
|-------------------------------|-----------------------------------|-------|-----------------------------------|
| Acute toxicity | LD ₅₀ rat (oral) | mg/kg | No data available for the product |
| Dermal compatibility | No data available for the product | | |
| Mucous membrane compatibility | No data available for the product | | |
| Further information | | | |

12. ECOLOGICAL INFORMATION

| | | | | |
|---------------------|--|------|------|-------------------|
| Acute toxicity | LC ₅₀ | Fish | mg/l | No data available |
| Degradability | No data available | | | |
| Further information | Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once. | | | |

Product Name: STAIN AND SCALE INHIBITOR

SDS Reference 056

13. DISPOSAL CONSIDERATIONS

Advice on disposal In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator.

Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number UN 3265.

Packaging group III

IMDG code 8/3265/III

RID / ADR 8/III

ICAO / IATA 8/3265/III

Marine pollutant The product should not be marked as a marine pollutant

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (NITRILOTRIS(METHYLENE PHOSPHONIC ACID))

Emergency action code 2X

15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 2002] Contains Nitriлотris (methylene phosphonic acid)



CORROSIVE

Risk phrases R34 CAUSES BURNS.

Safety phrases S1/2 KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. .
S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

16. ADDITIONAL INFORMATION

Additional information:

Sources of data Approved Supply List and other suppliers' safety data sheets

Date of issue 17-09-2003

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.

Data sheet prepared by Rising HS&E Services.