



SAFETY DATA SHEET

SENTINEL X400

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : SENTINEL X400

1.2 Use of substance/preparation

Sludge remover for central heating systems

1.3 Company/undertaking identification

GE Betz Limited
Waterside Lane, off Foundry Lane
Ditton, Widnes, Cheshire. WA8 8UD U.K.
Tel.: 0151 424 5351, Fax : 0151 423 2722, Telex : 627341

1.4 Emergency telephone

0151 424 5351

Official advisory body :

Guy's and St. Thomas' NHS Trust
Medical Toxicology Unit
Avonley Road, London, SE14 5ER
Tel.: 020 7635 9191, Fax : 020 7635 1053

2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

Neutral solution of synthetic organic polymer

| Hazardous component(s) | EINECS/ELINCS # | CAS # | Conc. |
|------------------------|-----------------|-------|-------|
| None. | | | |

3 HAZARDS IDENTIFICATION

Important hazards

- Health/physical hazard Not considered hazardous to health.
- Symptoms of exposure Prolonged or repeated contact may cause transient irritation.
- Environmental hazards The product is not classified as dangerous for the environment.

4 FIRST AID MEASURES

- Skin contact** Wash with water.
- Eye contact** Flush immediately with plenty of running water.
- Inhalation** Remove to fresh air.
- Ingestion** Rinse mouth with water.



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5 FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Carbon dioxide, dry chemicals, foam, water spray (fog).

Special protective equipment for fire fighters

Self contained breathing apparatus. (CEN : EN 137)
Protective clothing (CEN : EN 469)
Protective gloves (CEN : EN 659)
Helmet (CEN : EN 443)

Special exposure hazards

Oxides of carbon, nitrogen, and sulphur evolved in fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Protective clothing
Please refer also to section no. 8 'Exposure controls' for further information.

Environmental precautions

Handle in accordance with good industrial hygiene and safety procedures.
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

Methods for Cleaning Up

- on soil Absorb onto inert material and dispose of according to Controlled Waste Regulations.

7 HANDLING AND STORAGE

7.1 Handling

Do not breathe vapours.
Avoid contact with skin and eyes.

7.2 Storage

Keep container tightly closed.
Store in cool, well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

- Recommended engineering controls Ensure good ventilation.
- Respiratory protection Not required.
- Hand protection Protective gloves (Plastic, impervious).
CEN : EN 420
- Eye protection Safety goggles.
CEN : EN 166
- Skin protection Protective clothing if splashing or repeated contact with product is likely.
CEN : EN 340
- Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance Liquid
Colour Yellow to brown
Odour Mild



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9.2 Important health, safety and environmental info

| | |
|--------------------------------------|--------------------|
| pH (concentrated product) | 6,6 |
| Boiling point/range (°C) | 100 |
| Flash point (Pensky/Martens) (°C) | > 100 |
| Density at 20°C (kg/m ³) | 1030 |
| Solubility in water (% weight) | Completely soluble |

9.3 Other information

| | |
|---------------------|-----|
| Melting point, (°C) | - 2 |
|---------------------|-----|

10 STABILITY AND REACTIVITY

| | |
|---------------------------------------|--|
| 10.1 Conditions to avoid | Protect from freezing. |
| 10.2 Materials to avoid | None known. |
| 10.3 Hazardous decomposition products | Oxides of carbon, nitrogen, and sulphur evolved in fire. |

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

| | |
|-------------------------------|--------------------------|
| - Oral LD50, rat (mg/kg) | (Calculated data) >30000 |
| - Dermal LD50, rabbit (mg/kg) | (Calculated data) >14000 |

Exposure hazard

| | |
|----------------|--|
| - Inhalation | Prolonged or repeated exposure may cause transient irritation. |
| - Skin contact | Prolonged or repeated contact may cause transient irritation. |
| - Eye contact | Prolonged or repeated contact may cause transient irritation. |
| - Ingestion | May cause slight gastrointestinal irritation. |

12 ECOLOGICAL INFORMATION

Ecotoxicity

| | |
|------------------------|---|
| - Daphnia Magna (mg/l) | EC50 : >7000 48 hour estimated value |
|------------------------|---|

| | |
|-------------------------------|-------------------|
| Persistence and degradability | No data available |
|-------------------------------|-------------------|

| | |
|---------|---|
| Summary | The product is not classified as dangerous for the environment. |
|---------|---|

13 DISPOSAL CONSIDERATIONS

| | |
|---------------------|---|
| Disposal of product | According to Controlled Waste Regulations. EWC (European Waste Code) recommendation : 16 03 06 16 03 06 Wastes not otherwise specified in the list. 16 03 06 Off-specification batches and unused products. 16 03 06 Organic wastes Depending on the origin and state of the waste, other EWC numbers may be applicable too. |
|---------------------|---|



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Disposal of packaging According to Controlled Waste Regulations.
EWC (European Waste Code) recommendation : 15 01 02
15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
15 01 Packaging (including separately collected municipal packaging waste).
15 01 02 Plastic packaging.
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

14 TRANSPORT INFORMATION

Substance id.no. (SIN) (UN No.) Not applicable.
Correct shipping name Not applicable.
Land transport
- RID/ADR classification Not classified under this legislation.
Maritime transport
- IMO-IMDG class Not classified under this legislation
Air transport
- ICAO/IATA classification Not classified under this legislation

15 REGULATORY INFORMATION

EEC labelling information
- Symbol(s) None.
- R Phrase(s) No Risk phrases assigned.
- S Phrase(s) S 2 :Keep out of reach of children.
S 24/25 :Avoid contact with skin and eyes.
S 26 :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 :After contact with skin, wash immediately with plenty of water.
- EINECS number All ingredients of this product are listed in EINECS or ELINCS, unless specifically exempted under the EEC Directive 67/548/EEC.

16 OTHER INFORMATION

Nature of revision Correction in Section: 1,2,3,4,5,6,8,10,11,12,13,15,16
Based on EC Directive 1999/45/EC
2001/58/EC
2001/118/EC