

Safety Data Sheet

Radiator Flush

1. IDENTIFICATION OF PRODUCT & COMPANY

Product Name: Radiator Flush Alkaline Cleaner

Intended Use: No relevant information.
For professional use only.

Supplier: Beal UK Ltd.
Sterling Works,
Texas Street,
Tingley (A650),
Leeds,
West Yorkshire.
LS27 0HG

Emergency Telephone: 0113 253 8888

2. COMPOSITION/INFORMATION ON INGREDIENTS (concentrated)

A blend of alkaline builders, sequestering agent, detergent and water.

Substances presenting a Health or Environmental hazard within the meaning of the Chemicals (Hazard Information & Packaging for Supply) Regulations 2002.

| Substance Name | EINECS No. | CAS No. | % Conc Range | Hazard Symbols | Risk & Safety Phrases |
|------------------|------------|-----------|--------------|----------------|------------------------|
| Sodium Hydroxide | 215-185-5 | 1310-73-2 | 1-2 | C | R35 S(1/2),26,37/39,45 |

For full text of Risk Phrases see section 16 'Other Information'

3. HAZARDS IDENTIFICATION

Prolonged contact with product may result in the removal of essential fats and may result in dermatitis unless good personal hygiene is used.

Classification: Xi Corrosive

Risk Phrases: Causes burns - Irritating to the eyes

4. FIRST AID MEASURES

General: In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Keep warm and at rest. If breathing is irregular or stopped give artificial respiration. Give nothing by mouth. If unconscious place into recovery position and seek medical advice.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 mins, holding the eyelids apart. Seek medical advice.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry Powder, Halogenated Hydrocarbons, Sand, Foam.

Not To Be Used: Water, Carbon Dioxide.

Special Instructions For Fire Fighting Personnel:

May evolve toxic, flammable and asphyxiating gases in a fire. Therefore self contained breathing apparatus and an impervious body suit must be worn. Cool closed containers exposed to fire with a water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth and place in a suitable container for disposal in accordance with the waste regulations. Do not allow large quantities to enter drains or water courses. If it does local water companies should be contacted, in case of contamination of stream rivers or lakes the National Rivers Authority.

7. STORAGE & HANDLING

Handling: Avoid skin & eye contact. For personal protection see section 8. Good housekeeping and regular removal of waste materials will minimise risks.

Storage: The principles contained in the HSE's guidance note Storage of Packaged Dangerous substances should be observed when storing this product. Prevent unauthorised access. Container which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

| Substance Name | 15 min STEL | | 8hr LTEL | | Notation |
|------------------|-------------|-------------------|----------|-------------------|----------|
| | Ppm | Mg/m ³ | Ppm | Mg/m ³ | |
| SODIUM HYDROXIDE | | 2.00 | | | OES |

NOTES

Notations = Sk - risk of absorption through skin Sen - respiratory sensitizer.

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OES = Occupational Exposure Standard MEL = Maximum exposure Limit

OEL's are from EH40 except where marked SUP which are assigned by the supplier of the substances.

General Protection: All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

Respiratory Protection: If exposure to hazardous substances identified above cannot be controlled by provision of local exhaust ventilation & good general extraction, suitable respiratory protective equipment should be worn.

Hand Protection: Full physical protection is best. Seek relevant advice from glove manufacturers. Barrier cream may be of help but should not be applied after exposure has occurred.

Eye Protection: Eye protection designed to protect against liquid splashes should be worn.

Skin Protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap & water or a proprietary skin cleaner.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State: Clear pale straw coloured liquid **Specific Gravity:** 1.065 gms/cc Method
Vapour Density: Lighter than air **Solubility in water:** Miscible

10. STABILITY & REACTIVITY

Keep away from oxidising agents and strongly alkaline and acid materials to prevent the possibility of an exothermic reaction. Uncontrolled exothermic reactions occur with amines and alcohols. Stable under the recommended storage & handling conditions (see section 7)

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. Splashes in the eye may cause irritation and reversible local damage.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. Large quantities of the product should not be allowed to enter drain or water courses or be deposited where it can affect ground or surface waters.

13. DISPOSAL CONSIDERATIONS

Do not allow large quantities to enter the drains or water courses or dispose of where ground or surface waters may be affected.

14. TRANSPORT INFORMATION

| | | | |
|------------|---|-----------------------|-------------|
| Road/Rail: | UN Number.....1760 | Packing Group.....III | Class.....8 |
| | Designation.....For detailed export information contact if required | | |

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows.

Classification: Xi - Irritant

Contains: Sodium Hydroxide

| | | |
|--------------|----|------------------------|
| Risk Phrases | 36 | Irritating to the eyes |
| | 38 | the eyes |

| | | |
|----------------|----|--|
| Safety Phrases | 2 | Keep out of the reach of children |
| | 35 | This material and it's container must be disposed of in a safe way |
| | 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice |
| | 46 | If swallowed seek medical advice immediately and show this container or label. |

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health & safety legislation.
The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Date of Origination 30/04/96

Date of last revision 23/02/06

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations 2002. As the specific conditions of use of the product are outside of the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environment aspects of the product and should not be constructed as any garentee of technical performance or suitability for particular applications.