

# SAFETY DATA SHEET

CalChem



This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

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

### 1.1 Product identifier

CalChem

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Corrosion inhibitor for heating and cooling systems

### 1.3 Details of the supplier of the safety data sheet

Calmag (Yorkshire) Ltd  
Riverview Buildings  
Bradford Road, Riddlesden  
Keighley  
West Yorkshire  
BD20 5JH  
Tel: 01535 210320  
Fax: 01535 210321  
Email: [sales@calmagltd.com](mailto:sales@calmagltd.com)  
Web: [www.calmagltd.com](http://www.calmagltd.com)

### 1.4 Emergency telephone number

Tel. 01535 210320 (9.00am – 5.00pm Mon-Fri except Public Holidays)

## SECTION 2: Hazards Identification

### 2.1 Classification of the substance or mixture

Not classified as hazardous

### 2.2 Label elements

No labelling required

### 2.3 Other hazards

May cause irritation on prolonged exposure.

## SECTION 3: Composition

### 3.1 Substances

Not applicable

### 3.2 Mixtures

An aqueous mixture of polyether, corrosion inhibitor and biocide.

Contains no components considered hazardous above thresholds of concern.

**SECTION 4: First Aid Measures****4.1 Description of first aid measures**

EYE CONTACT: Wash thoroughly with water for several minutes, holding the eyelids apart. Seek medical attention if irritation persists.

INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.

SKIN CONTACT: Wash off with soap and water. Seek medical attention if irritation persists..

INGESTION: If swallowed, rinse mouth with water. Do NOT induce vomiting. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

EYES: Redness, mild irritation.

INHALATION: Cough, irritation.

SKIN: Redness, mild irritation.

INGESTION: Nausea, dizziness. Ingestion of large doses may result in symptoms of CNS depression.

**4.3 Indication of any immediate medical attention and special treatments needed**

Symptomatic treatment as required.

**SECTION 5: Firefighting Measures****5.1 Extinguishing media**

Not flammable. Use extinguishing media appropriate to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture**

If involved in a fire, may release fumes of nitrogen and sulphur oxides.

Prevent entry of product and contaminated fire fighting water into streams and watercourses.

**5.3 Advice for fire fighters**

Fire fighters should wear protective clothing and breathing apparatus as appropriate.

**SECTION 6: Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing including gloves and eye protection. Open doors and windows to ensure good ventilation.

**6.2 Environmental precautions**

Prevent entry into sewers and watercourses.

**6.3 Methods and materials for containment and clearing up**

Small spills (<1 litre) may be washed to foul drain with copious quantities of water. Do not wash into storm drains or watercourses.

Large spills (> 1 litre) should be covered with a suitable absorbent, e.g. sand, earth or spill granules and collected for disposal. Wash spill area thoroughly with water and detergent.

**6.4 References to other sections**

See section 8 and 13 for further advice.

**SECTION 7: Handling and Storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Do not inhale vapours, mists or sprays.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed and in a cool, well ventilated area. Keep only in original container.

**7.3 Specific end uses(s)**

No special precautions.

**SECTION 8. Exposure Controls/Personal Protection****8.1 Control parameters**

No exposure limits available for the components of the mixture.

**8.2 Exposure controls**

None usually required during normal handling. Normal chemical handling procedures should be observed. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling,

**Respiratory protection**

Not usually required. Use in well ventilated areas and avoid formation of spray or aerosols.

**Hand Protection**

Suitable chemical resistant gloves recommended for use with alkali materials. PVC or rubber may be suitable but glove manufacturer recommendations should always be checked. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

**Eye protection**

Safety glasses with side shields or goggles should be worn if there is a risk of splashing eyes.

**Skin protection**

Coveralls recommended. These should be changed after use or if contaminated. Wash before re-use.

**Environmental exposure controls**

Precautions should be taken to avoid accidental release to water courses.

**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Pale straw coloured liquid
<b>Odour:</b>	Detergent type odour
<b>Odour threshold:</b>	No data
<b>pH:</b>	Alkaline
<b>Melting point:</b>	Similar to water
<b>Boiling point:</b>	Similar to water
<b>Flashpoint:</b>	Not flammable
<b>Evaporation rate:</b>	Similar to water
<b>Flammability (solids/gases):</b>	Not applicable
<b>Upper/lower flammability limits:</b>	Not flammable
<b>Vapour pressure:</b>	Similar to water
<b>Vapour density</b>	Similar to water
<b>Specific gravity</b>	1.027 +/-0.01 @ 20°C
<b>Solubility in water:</b>	Completely soluble in water
<b>Solubility in other solvents:</b>	No data
<b>Partition coefficient (log Kow)</b>	-No data
<b>Autoignition temperature</b>	Not flammable
<b>Decomposition temperature</b>	No data
<b>Viscosity</b>	No data
<b>Explosive properties</b>	Not classified as explosive
<b>Oxidising properties</b>	Not classified as oxidising.

**9.2 Other information**

None

**SECTION 10: Stability and Reactivity****10.1 Reactivity**

Not considered to be reactive.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

May react vigorously with acids and oxidising agents.

**10.4 Conditions to avoid**

Excessive heat.

**10.5 Incompatible materials**

Acids, oxidising agents

**10.6 Hazardous decomposition products**

None expected under normal conditions of use.

**SECTION 11: Toxicological Information****11.1 Information on toxicological effects**

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

- (a) **acute toxicity** Not expected to be acutely toxic. LD<sub>50</sub> estimated > 2000 mg/kg.
- (b) **skin corrosion/irritation** May be slightly irritating to the skin based on consideration of its components.
- (c) **serious eye damage/irritation** May be slightly irritating to the eye based on consideration of its components.
- (d) **respiratory/skin sensitisation** Contains no components known to be sensitising.
- (e) **germ cell mutagenicity** Contains no components known to be germ cell mutagens.
- (f) **carcinogenicity** Contains no components known to be carcinogens.
- (g) **reproductive toxicity** Contains no components known to be reproductive toxins.
- (h) **STOT-single exposure** Contains no components known to cause specific target organ toxicity.
- (i) **STOT-repeated exposure** Contains no components known to cause specific target organ toxicity.
- (j) **aspiration hazard** The product is not expected to be an aspiration hazard.

**SECTION 12: Ecological Information**

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

**12.1 Toxicity**

Not expected to be toxic in the environment.

**12.2 Persistence and degradability**

The organic components are biodegradable and are not expected to persist in the environment.

**12.3 Bioaccumulative potential**

None of the components are considered to be bioaccumulative.

**12.4 Mobility in soil**

All components are readily soluble in water and if released into soil will be mobile in the environment.

**12.5 Results of PBT and vPvB assessment**

None of the components are known to be PBT or vPvB.

**12.6 Other adverse effects**

None known.

**SECTION 13: Disposal Considerations****13.1 Waste treatment methods**

Recover and recycle product if possible. If recovery and recycling are not possible incinerate or dispose of in accordance with local regulations.

Empty containers should be thoroughly rinsed with copious amounts of clean water. The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use.

**SECTION 14: Transport Information**

Not classified as hazardous for transport.

14.1	UN Number	Not applicable		
14.2	UN Proper shipping name	Not applicable		
14.3	Transport hazard class(es)	Not applicable		
14.4	Packing group	Not applicable		
14.5	Environmental hazards	Not applicable		
14.6	Special precautions for user	None		
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		Not transported in bulk	

**SECTION 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

All components are listed as existing substances in Europe

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

**SECTION 16: Other Information****Revision information:**

Updated to remove references to DS and DPD.

**List of Abbreviations used in this SDS:**

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bioaccumulative

**Statements used in Section 2 and/or 3**

None

**References:**

Suppliers safety data sheet.  
ECHA Classification and Labelling Inventory.

**Method used for classification of mixtures:**

Ingredient based approaches and expert judgment.

**Training requirements for workers**

No special training requirements.