

SAFETY DATA SHEET

CalShot Cleanser



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**
CalShot Cleanser
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Cleanser for central heating 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
Web: 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**
Acute Toxicity (Oral) Category 4, H302 Harmful if swallowed
Skin irritation Category 2, H315 Causes skin irritation
Eye irritation Category 2, H319 Causes serious eye irritation

2.2 Label elements



Warning

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P101 If medical advice is needed, have product container or label at hand.

2.3 Other hazards

None known.

SECTION 3: Composition

3.1 Substances

Not applicable

3.2 Mixtures

An aqueous mixture of tetrasodium ethylenediamine tetraacetate, sodium silicates, sodium hydroxide, sodium nitrite, phosphate ester, low foam surfactant and cationic polyelectrolyte

Name	CAS No	Concentration	Classification
Aryl ether phosphate ester, potassium salt	72283-31-9	<20%	Skin Irrit. 2 H315, Eye Irrit.2 H319
Sodium carbonate	497-19-8	<5%	Eye Irrit.2 H319
Sodium nitrite	7632-00-0	<2%	Ox. Sol. 3 H272 Acute Tox. 3 H301, Eye Irrit. H319, Aquatic Acute 1 H400

See section 16 for full description of statements.

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 immediate medical attention.

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, irritation, pain.

INHALATION: Cough, irritation.

SKIN: Redness, irritation, pain.

INGESTION: Nausea, pain, shortness of breath, dizziness. Sodium nitrite may cause methemoglobinaemia.

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 extinguisher 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.

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 drain with copious quantities of water.

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**

Other than the use of hand and eye protection, no special precautions are required.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store above 5°C.

7.3 Specific end uses(s)

No special precautions.

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

Substance	8 hour exposure limit	15 minute exposure limit	Source, Type
Sodium hydroxide	-	2 mg/m ³	EH40

8.2 Exposure controls

None 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

Goggles must be worn when handling this product.

Skin protection

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

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

Appearance: Hazy, pale straw coloured liquid

Odour: Detergent odour

Odour threshold:	No data
pH:	Alkaline
Melting point:	Similar to water – approx. 0°C
Boiling point:	Similar to water – approx. 100°C
Flashpoint:	None
Evaporation rate:	Similar to water
Flammability (solids/gases):	Not applicable
Upper/lower flammability limits:	Not applicable
Vapour pressure:	Similar to water
Vapour density	Similar to water
Relative density	1.04
Solubility in water:	Completely soluble
Solubility in other solvents:	No data
Partition coefficient (log Kow)	No data
Autoignition temperature	Not combustible
Decomposition temperature	No data
Viscosity	Not viscous
Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising. May have weak oxidising properties.

9.2 Other information

None

SECTION 10: Stability and Reactivity

10.1 Reactivity

Calcleanser is 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 reducing agents.

10.4 Conditions to avoid

Excessive heat.

10.5 Incompatible materials

Acids, reducing agents

10.6 Hazardous decomposition products

May release nitrogen and sulphur oxides if heated to decomposition.

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** Calcleanser contains sodium nitrite and may be harmful by ingestion.
- (b) **skin corrosion/irritation** Calcleanser is expected to be irritating to the skin based on consideration of its components.
- (c) **serious eye damage/irritation** Calcleanser is expected to be 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** Sodium nitrite may cause methemoglobinaemia, however at the levels present it is not expected to be a cause for concern.
- (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

Calcleanser is not expected to be toxic in the environment. Significant releases may cause short term effects due to the pH of the product, however this will be rapidly lost upon dilution.

12.2 Persistence and degradability

The organic components are all 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.

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.

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

Statements used in Section 3

Ox. Sol. 3 H272 May intensify fire; oxidiser.
Acute Tox. 3 H301 Toxic if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Aquatic Acute 1 H400 Very toxic to aquatic life.

Revision information:

Updated to remove DSD and DPD information from sections 2 and 3.