

Material Safety Data Sheet

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

1.1. Product identifier

- **Product name** – CalSan

1.2. Relevant identified uses of the mixture and uses advised against

- Sanitising of hands

1.3. Details of the supplier of the safety data sheet

Calmag Yorkshire Limited
Riverview Buildings
Bradford Road
Riddlesden
Keighley
West Yorkshire BD20 5JH
Tel: +44 (0) 1535 210320 (Mon – Fri 8.45am – 5.00pm)
E-mail: sales@calmagltd.com

1.4. Emergency telephone number

- +44 (0) 7813 136793

SECTION 2: Hazards identification

2.1. Classification of the mixture

Classification according to regulation (EC) No.1272/2008

Hazard Class	Hazard Category	Hazard Statements
Flammable Liquids	Category 2	H225
Eye Irritation	Category 2	H319
Specific Target Organ Toxicity Single Exposure	Category 3	H336



For the full text of the H-Statements mentioned in this section, see Section 16.

- **Primary route of exposure** – skin or eye contact, inhalation of vapours
- **Most important adverse effects**
 - **Human Health** – see section 11 for toxicological information
 - **Physical and Chemical Hazards** – see section 9 for physiochemical information
 - **Potential Environmental Effects** – see section 12 for environmental information

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2.2. Label elements

Labelling according to regulation (EC) No. 1272/2008

Hazard symbols:	SGH02		SGH07	
Signal word:	Danger			
Hazard statements:	H225 H319 H336	Highly flammable liquid and vapour Causes serious eye irritation May cause drowsiness or dizziness		
Precautionary statements				
Prevention	P210 P233 P280	Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container tightly closed Use protective gloves / protective clothing / eye protection / face protection		
Response	P312 P370+378 P305+351+338	Call a POISON CENTER or doctor / physician if you feel unwell In case of fire use chemical powders, carbon dioxide for extinction IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing		
Storage	P403+233	Store in a well-ventilated place. Keep container tightly closed.		
Contains	Ethanol			

2.3. Other hazards

- No other data available

SECTION 3: Composition/information on ingredients

3.2 Mixtures

This product is a mixture.

Name	%	Index-No.	CAS-No.	EC-No.	EC Registration	Classification (Regulation EC 1972/2008)	
Ethanol	>80	603-002-00-5	64-17-5	200-578-6	01-2119457610-43-XXXX	Flam. Liq.2 Eye Irrit.2	H225 H319

For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- **General advice**
 - In all cases of doubt, or when symptoms persist, seek medical advice
 - Never give anything by mouth to an unconscious person
- **Inhalation**
 - Move to fresh air
 - If breathing is irregular or stopped, consider artificial respiration
 - If unconscious place in recovery position
- **Skin Contact**
 - Take off all contaminated clothing immediately
 - Wash immediately with plenty of soapy water
- **Eye Contact**
 - Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Remove contact lenses
- **Ingestion**
 - Rinse mouth
 - Get immediate medical attention

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

- **Inhalation**
 - Possible drowsiness and dizziness. Risk of respiratory problems
- **Skin Contact**
 - Redness, pain. The skin absorbs part of the ingredients of this product. Can cause dry or chapped skin
- **Eye Contact**
 - Redness, watering, blurred vision. Risk of irritant effect on eyes
- **Ingestion**
 - Health risk even in small quantities. Product should not come into contact with food stuffs

4.3. Indication of any immediate medical attention and special treatment needed

- **Note to physicians**
 - Maintain adequate ventilation and oxygenation of the patient. Haemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- **Suitable extinguishing media**
 - Alcohol-resistant foam, carbon dioxide, dry chemical powder

- **Unsuitable extinguishing media**
 - High volume water jet

5.2. Special hazards arising from the mixture

- **Specific hazards during fire fighting**
 - The vapour may be invisible, heavier than air and spread along the ground
 - Vapours may form an explosive atmosphere with air
 - Flash back possible over considerable distance
 - Fire produces carbon oxides (CO and CO₂) and dense black smoke that is a health hazard; symptoms may not be immediately apparent

5.3. Advice for firefighters

- **Special protective equipment**
 - Wear self-contained breathing apparatus
 - Wear full protective suit
- **Further advice**
 - Cool closed containers with water spray / fog
 - Heating will cause pressure rise with risk of bursting
 - Collect contaminated fire extinguishing water separately; do not discharge to drains

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment
- Provide adequate ventilation
- Keep away from heat and sources of ignition
- Avoid contact with skin, eyes and clothing
- Do not breathe vapours or mist

6.2. Environmental precautions

- Do not flush into surface water or sanitary sewer system
- Avoid subsoil penetration
- If the product contaminates rivers and lakes or drains inform respective authorities

6.3. Methods and material for containment and cleaning up

- Contain spillage
- Ground and bond all containers and handling equipment
- Collect with non-combustible absorbent material
- Place in container for disposal according to local / national regulations

6.4. Reference to other sections

- For personal protection refer to Section 8
- For disposal according to local / national regulations refer to Section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Keep container tightly closed
- Use personal protective equipment; avoid contact with skin, eyes and clothing
- Ensure adequate ventilation; do not breathe vapours
- Emergency eye wash fountains and emergency showers should be available in the immediate vicinity
- Vapours are heavier than air and may form explosive atmospheres
- Use-anti-static, non-sparking tools

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- No smoking, naked-flames or sources of ignition; electrical equipment must be approved for use in a potentially explosive atmosphere
- Handle empty containers with care as residual vapours are flammable
- Limit the quantity of product in the workplace to a minimum
- Authorised persons only

7.2. Conditions for safe storage, including any incompatibilities

- Keep container tightly closed
- Store within a solvent-resistant bunded area
- Store in original container in a dry, cool and well-ventilated place
- Keep away from direct sunlight

7.3. Specific end use(s)

- No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

UK. EH40 Workplace Exposure Limits (WELs)		
Component	Short-term exposure limit (STEL)	Time weighted average (TWA)
Ethanol	1,000ppm, 1,920 mg/m ³	1,000ppm, 1,920 mg/m ³

8.2. Exposure controls

- **Engineering controls**
 - Monitor airborne levels in and surrounding the workplace
 - Use engineering controls to maintain airborne level below exposure limits
 - Local exhaust ventilation may be necessary
 - If airborne levels exceed exposure limits then respiratory protection should be worn
- **Personal Protection**
 - Respiratory protection
 - Use an CE approved respirator with organic vapour cartridge with a particulate pre-filter, type AP2
 - Eye protection
 - Use chemical goggles consistent with EN 166 or equivalent
 - Hand protection
 - Use chemical resistant gloves consistent with EN 374 or equivalent
 - Skin protection
 - Use chemical resistant anti-static clothing
 - Hygiene
 - Handle in accordance with good industrial hygiene
 - Keep workplace clean and tidy as much as possible
 - Keep away from food, drink and animal feed
 - Wash hands and change clothes before and after each work shift
- **Environmental Protection**
 - Refer to Section 6, 7 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: viscous liquid
Colour	: colourless / amber / pigmented
Odour	: esters
Odour threshold	: no data available
pH	: not applicable
Boiling point / range	: >77°C
Flash point	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: formation of explosive air/vapour mixture is possible
Explosion limits (%V)	: no data available
Vapour pressure	: no data available
Relative vapour pressure	: no data available
Relative density (g/cm ³ @ 20°C)	: no data available
Water solubility	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	: no data available
Explosive properties	: formation of explosive air/vapour mixture is possible
Oxidising properties	: no data available

9.2. Other information

- No further data available

SECTION 10: Stability and reactivity

10.1. Reactivity

- No data available

10.2. Chemical stability

- Stable under recommended storage conditions. See Section 7

10.3. Possibility of hazardous reactions

- Polymerisation will not occur

10.4. Conditions to avoid

- Heat, flames, sparks, static discharge and direct sunlight

10.5. Incompatible materials

- Various plastics
- Acids, alkali, amines, bases, hydrides, metal, oxidisers

10.6. Hazardous decomposition products

- Decomposition products can include and not limited to: nitrogen oxides and carbon oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- There is no data available on the product itself and therefore bridging principles have been applied:

Toxicity	Value (estimated)	Result
Acute oral toxicity	>2000 mg / kg	No acute toxicity
Acute dermal activity	>2000 mg / kg	No acute toxicity
Acute inhalation activity	>20 mg / l	No acute toxicity
Eye irritation	Irritating	Eye irritant category 2
Specific target organ toxicity after single exposure	May cause drowsiness and dizziness	STOT SE category 3

SECTION 12: Ecological information

12.1. Toxicity

- There is no data available for the product itself

12.2. Persistence and degradability

- No data available

12.3. Bio accumulative potential

- No data available

12.4. Mobility in soil

- No data available

12.5. Results of PBT and vPvB assessment

- No data available

12.6. Other adverse effects

- No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- This product should be treated as hazardous waste according to EC 2008/98/EC
- Use authorised waste disposal services in compliance with all national, provincial, municipal or local laws
- Do not dispose of together with normal waste
- Do not dispose of into the environment, drains or sanitary sewer
- Do not burn or use cutting torch on empty drum
- Empty drums for storage or transport should continue to be labelled as flammable, class 3

SECTION 14: Transport information

Classification for Road and Rail Transport (ADR/RID)

14.1. UN number

- 1170

14.2. UN proper shipping name

- Ethanol Solution

14.3. Transport hazard class(es)

- Class 3

14.4. Packing group

- II

14.5. Environmental hazards

- No information available

14.6. Special precautions for user

- No information available

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- No information available

Classification for Sea Transport (IMDG)

14.1. UN number

- 1170

14.2. UN proper shipping name

- Ethanol Solution

14.3. Transport hazard class(es)

- Class 3

14.4. Packing group

- II

14.5. Environmental hazards

- No information available

14.6. Special precautions for user

- No information available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- No information available

Classification for Air Transport (IATA/ICAO)

14.1. UN number

- 1170

14.2. UN proper shipping name

- Ethanol Solution

14.3. Transport hazard class(es)

- Class 3

14.4. Packing group

- III

14.5. Environmental hazards

- No information available

14.6. Special precautions for user

- No information available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- No information available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- This mixture contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)

15.2. Chemical safety assessment

- Not applicable

SECTION 16: Other information

Full text of H-statements referred to previously in document:

- H225: Highly flammable vapour
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness