



# MATERIAL SAFETY DATA SHEET

## SOMFROTH

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SOMFROTH (C-4 Alkoxy alkane)

**CONTACT PERSON:**

Mr. S.G.Mokashi  
 Godavari Biorefineries Ltd.  
 45-47, Somaiya Bhavan  
 M.G.Road, P.O.Box384  
 Fort, Mumbai 400001  
 Tel: 0091 22 22048272  
 Fax: 0091 22 22047297

**CREATION DATE:** Mar 02 2007

**REVISION DATE:** Jan 13 2016

### 2. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

Non-hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant), of ingestion, of inhalation

**Potential Chronic Health Effects:**

Non-hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

### 3. COMPOSITION, INFORMATION ON INGREDIENTS

Name	Purity (%)by weight
C-4 Alkoxy alkane	Min. 95

Polymer

0.2– 5.0

---

#### 4. FIRST AID MEASURES

---

**Eye Contact:**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Skin Contact:**

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhalation:**

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Ingestion:**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

---

#### 5. FIRE FIGHTING MEASURES

---

**EXTINGUISHING MEDIA**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**SPECIAL RISKS**

Specific Hazard(s): Emits toxic fumes under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Flash Point:** CLOSED CUP: 60 - 64.0 °C

---

#### 6. ACCIDENTAL RELEASE MEASURES

---

**Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Clean by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

---

## 7. HANDLING AND STORAGE

---

**HANDLING**

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:**

Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

---

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

---

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.  
Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

**Exposure Limits:** Consult local authorities for acceptable exposure limits.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Physical state and appearance:</b>	Liquid
<b>Odor:</b>	Pungent Aldehyde like (Strong)
<b>Taste:</b>	Not available

---

<b>Color:</b>	Pale Yellow
<b>PH (1% soln/water):</b>	Neutral in nature
<b>Boiling Point:</b>	90-105 °C at 10 mm Hg
<b>Melting Point:</b>	Not available
<b>Critical Temperature:</b>	Not available
<b>Specific Gravity:</b>	0.880 (Water = 1)
<b>Vapor Density:</b>	6.59 (Air = 1)
<b>Volatility:</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>Water/Oil Dist. Coeff:</b>	Not available
<b>Iconicity (in Water):</b>	Not available
<b>Solubility:</b>	Not available

---

## 10. STABILITY AND REACTIVITY

---

<b>Stability:</b>	The product is stable
<b>Instability Temperature:</b>	Not available
<b>Incompatibility with various substances:</b>	Highly reactive with oxidizing agents, acids, and alkalis
<b>Condition of Instability:</b>	Sparks, Open flames, Heat and other ignition sources
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, Carbon dioxide.
<b>Corrosivity:</b>	Not available
<b>Special Remarks on Reactivity:</b>	Not available
<b>Special Remarks on Corrosivity:</b>	Not available

---

**Hazardous Polymerization:** Will not occur

---

## 11. TOXICOLOGICAL INFORMATION

---

**Routes of Entry:** Dermal contact, Eye contact, Inhalation, Ingestion

**Toxicity to Animals:** Not Available

**Chronic Effects on Humans:** Not Available

**Other Toxic Effects on Humans:**

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on Chronic Effects on Humans:** Not available

**Special Remarks on Other Toxic Effects on Humans:** Not available

---

## 12. ECOLOGICAL INFORMATION

---

No data available

---

## 13. DISPOSAL CONSIDERATIONS

---

**Product information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

**Uncleaned empty packaging**

Dispose of as unused product

---

## 14. TRANSPORT INFORMATION

---

RID/ADR

Non-hazardous for road transport

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

---

## 15. REGULATORY INFORMATION

---

Not hazardous according to Directive 67/548/EEC.

Caution: Substance not yet fully tested (EU).

---

## 16. OTHER INFORMATION

---

The information in this safety data sheet is based on data and samples provided. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes.

The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. Godavari Biorefineries Limited does not guarantee the accuracy or exhaustiveness of the information provided.