

# Material Safety Data Sheet

## BINDU

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer's Name:** Agri Life

**Manufacturer's Address:** 154/A5, SVCIE, IDA Bollaram 502 325, INDIA

Tel : +91 98854 46278

Fax : +91 8458 29905

Email : [agrilife@agrilife.in](mailto:agrilife@agrilife.in)

**Distributor Name:**

**AgriLife Hellas**

[Http://www.agrilifehellas.com](http://www.agrilifehellas.com)

[agrilifehellas@gmail.com](mailto:agrilifehellas@gmail.com)

Mob 0030-6984444505 Solid: 27420 22369 - Fax:  
27420 20694

**Distributor Address:**

#### EMERGENCY TELEPHONE NUMBERS:

Emergency Information

Tel : +91 98854 46278

Fax : +91 8458 29905

Email : [agrilife@agrilife.in](mailto:agrilife@agrilife.in)

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**Trade Name:** BINDU

**Trade Use:** As wetting agent in Agriculture.

Generic Description: Silicone

Physical Form: Liquid

Color: Amber

Odor: Characteristic odor

NFPA Profile:

Health 3 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

### 2. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

##### Acute Effects

Eye:

May cause irreversible damage and burns to the eyes.

Skin:  
May cause mild irritation.

Inhalation:  
No significant effects expected from a single short-term exposure.

Oral:  
Low ingestion hazard in normal use.

#### **Prolonged/Repeated Exposure Effects**

Skin:  
Overexposure may injure internally if absorbed.

Inhalation:  
No known applicable information.

Oral:  
Repeated ingestion or swallowing large amounts may injure internally.

#### **Signs and Symptoms of Overexposure**

No known applicable information.

#### **Medical Conditions Aggravated by Exposure**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions,

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Number	Wt %	Component Name
67674-67-3	70.0 - 90.0	3-(3-Hydroxypropyl) -heptamethyltrisiloxane, ethoxylated, Hydroxy-terminated

The above components are hazardous as defined in 29 CFR 1910.1200.

### **4. FIRST AID MEASURES**

Eye:  
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes while holding the eyelid(s) open. If contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as available. Do not interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Skin:  
As quickly as possible remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately flush with lukewarm gently flowing water for 15 minutes. Completely decontaminate clothing, shoes and leather goods before reuse or discard. Obtain medical attention.  
Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Oral:  
If irritation or discomfort occur, obtain medical advice.  
Notes to Physician: Treat according to person's condition and specifics of exposure.

## 5. FIRE FIGHTING MEASURES

Flash Point: > 214 °F / > 101.1 °C (Closed Cup)  
Autoignition Temperature: Not determined.  
Flammability Limits in Air: Not determined.

### Extinguishing Media:

On large fires use AFFF alcohol compatible foam or water spray (fog). On small fires use AFFF alcohol compatible foam, CO<sub>2</sub> or water spray (fog). Water can be used to cool fire exposed containers. Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution. When the fire is put out, hydrogen may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Foam blankets may also trap hydrogen or flammable vapors, with the possibility of subsurface explosion.

Unsuitable Extinguishing Media: Dry chemical.

### Fire Fighting Measures:

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

### Unusual Fire Hazards:

None.

## 6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up:

Note: See Section 8 for Personal Protective Equipment for Spills.

## 7. HANDLING AND STORAGE

Use with adequate ventilation. Do not get in eyes. Avoid skin contact. Do not take internally. Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

There are no components with workplace exposure limits.

### Engineering Controls

Local Ventilation: Recommended.

General Ventilation: Recommended.

### Personal Protective Equipment for Routine Handling

Eyes:

Use chemical worker's goggles.

Skin:

Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:

Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact.

Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.

Inhalation:  
No respiratory protection should be needed.

Suitable Respirator:  
None should be needed.

### **Personal Protective Equipment for Spills**

Eyes:  
Use proper protection - safety glasses as a minimum.

Skin:  
Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator:  
No respiratory protection should be needed.

Precautionary Measures:  
Do not get in eyes. Avoid skin contact. Do not take internally. Use reasonable care.  
Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com))

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form:  
Liquid  
Color: Amber  
Odor: Characteristic odor  
Specific Gravity @ 25°C: 1.02  
Viscosity: 40 cSt  
Freezing/Melting Point: Not determined.  
Boiling Point: 100 °C  
Vapor Pressure @ 25°C: Not determined.  
Vapor Density: Not determined.  
Solubility in Water: Not determined.  
pH: Not determined.  
Volatile Content: Not determined.  
Flash Point: > 214 °F / > 101.1 °C (Closed Cup)  
Autoignition Temperature: Not determined.  
Flammability Limits in Air: Not determined.

## **10. STABILITY AND REACTIVITY**

Chemical Stability:  
Stable.  
Hazardous  
Polymerization:  
Hazardous polymerization will not occur.  
Conditions to Avoid:  
None.  
Materials to Avoid:  
Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.  
Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute Toxicology Data for Product**

Species

Test Results

Oral LD50: Rat

> 5,050 mg/kg

Dermal LD50: Rabbit

> 2,000 mg/kg

### **Additional Toxicology Information on Product**

Results of the acute toxicology studies listed above are based on actual testing of this product and/or testing of similar products.

### **Component Toxicology Information**

A component of this material applied to the skin of rabbits at very large doses for a 24 hour contact caused injury to the lungs. This may be a unique response with rabbits and its significance to humans is unknown.

### **Special Hazard Information on Components**

No known applicable information.

## **12. ECOLOGICAL INFORMATION**

### **Environmental Fate and Distribution**

Complete information is not yet available.

### **Environmental Effects**

Complete information is not yet available.

### **Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50) High Medium Low

Acute Aquatic Toxicity (mg/L)  $\leq 1$   $> 1$  and  $\leq 100$   $> 100$

Acute Terrestrial Toxicity  $\leq 100$   $> 100$  and  $\leq 2000$   $> 2000$

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above

## **13. DISPOSAL CONSIDERATIONS**

### **RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No  
State or local laws may impose additional regulatory requirements regarding disposal.

## **14. TRANSPORT INFORMATION**

### **DOT Road Shipment Information (49 CFR 172.101)**

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.

Hazard Technical Name: Methyl (propylhydroxide, ethoxylated) bis(trimethylsiloxy) silane

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): Class 9

Remarks: Above applies only to containers over 119 gallons or 450 liters.

**Ocean Shipment (IMDG)**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Technical Name: Methyl (propylhydroxide, ethoxylated) bis(trimethylsiloxy) silane

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): miscellaneous

Marine Pollutant: Methyl (propylhydroxide, ethoxylated) bis(trimethylsiloxy) silane

**Air Shipment (IATA)**

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Technical Name: Methyl (propylhydroxide, ethoxylated) bis(trimethylsiloxy) silane

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): Miscellaneous dangerous goods

Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

**15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA Title III Chemical Listings****Section 302 Extremely Hazardous Substances (40 CFR 355):**

None.

**Section 304 CERCLA Hazardous Substances (40 CFR 302):**

None.

**Section 311/312 Hazard Class (40 CFR 370):**

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactive: Yes

**Section 313 Toxic Chemicals (40 CFR 372):**

None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

**Supplemental State Compliance Information****California**

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

**New Jersey**

CAS Number	Wt %	Component Name
67674-67-3	70.0 - 90.0	3-(3-Hydroxypropyl) -heptamethyltrisiloxane, ethoxylated, Hydroxy-terminated
27274-31-3	10.0 - 30.0	Polyethylene oxide monoallyl ether
25322-68-3	<=9.0	Polyethylene glycol

**Pennsylvania**

CAS Number	Wt %	Component Name
67674-67-3	70.0 - 90.0	3-(3-Hydroxypropyl) -heptamethyltrisiloxane, ethoxylated, Hydroxy-terminated
27274-31-3	10.0 - 30.0	Polyethylene oxide monoallyl ether

**16. OTHER INFORMATION**

**Agri Life provides the information contained herein in good faith, in compliance with the Occupational Safety and Health Act of 1970, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Agri Life warrants that this product is of merchantable quality. The implied warranty of fitness for a particular purpose is limited to the extent the products are used for the purpose or uses described on the product's label or in any written instructions or materials distributed to the buyer by Agri Life and is hereby disclaimed should buyer use the products in a manner inconsistent with this uses or purposes described therein. In no event shall Agri Life be liable for any consequential, exemplary, or incidental damages incurred by buyer even if it has been advised of the possibility of such damages.**

**Date Of Issue:**