

# Material Safety Data Sheet

24 –Hour Emergency Telephone Numbers

HEALTH: Univenture Industries Pvt Ltd +91-712-2594567

TRANSPORTATION: Univenture Industries Pvt Ltd +91-712-2594567

Emergency Information Centers are located in INDIA.

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** Polyisobutylene Succinic Anhydride (**PIBSA**)

**Trade Name: UNOL-7**

**Product Number(s):** UNOL7095, UNOL7130, UNOL7170, UNOL7210, UNOL7XXX

### Company Identification

M/s. UNIVENTURE INDUSTRIES PVT LTD  
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### Product Identification

MSDS Request: +91-712-3192151  
Technical Request: +91-712-3192152

## SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS

| COMPONENTS                             | CAS NUMBER | AMOUNT      |
|--|------------|-------------|
| Highly refined mineral oil (C15 – C50) | Mixture    | <50% weight |

## SECTION 3 HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEWS

**Dark amber liquid**

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## IMMEDIATE HELATH EFFECTS

**Eye:** Not expected to cause prolonged or significant eye irritation. If this material is heated, thermal burns may result from eye contact.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin. If this material is heated, thermal burns may result from skin contact.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

## DELAYED OR OTHER HEALTH EFFECTS:

**Cancer:** None of the components in this material are listed as carcinogens by IARC, NTP or OSHA.

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| <b>SECTION 4 FIRST AID MEASURES</b> |
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**Eye:** No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove lenses, if worn and flush eyes with water. If heated material should splash into eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses, if worn. Get immediate medical attention.

**Skin:** No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, apply a waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. If the hot material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin.

**Ingestion:** No specific first aid measures are required because this material is not expected to be harmful if it swallowed. Do not induce vomiting. As a precaution give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get Medical attention if breathing difficulties continue.

## SECTION 5 FIRE FIGHTING MEASURES

### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 0 Reactivity: 0

### FLAMMABLE PROPERTIES:

**Flashpoint:** (Cleveland Open Cup) 356°F (180°C) Minimum

**Auto Ignition:** NDA

**Flammability (Explosive) Limits (% by volume in air):** Lower: NDA Upper: NDA

**EXTINGUISHING OF FIRE FIGHTERS:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or ground water. Clean up spill as soon as possible, observing precautions in Controls/ Personal Protection. Use appropriate techniques such as applying non-combustible absorbent material or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated material in disposal containers and dispose of in manner consistent with applicable regulations. If heated material is spilled, allow it to cool before proceeding with disposal methods.

**Reporting:** Report spills to local authorities and/ or the U.S. Coast Guard's National Response Centre at (800) 424-8802 as appropriate or required.

## SECTION 7 HANDLING AND STORAGE

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Avoid contact of heated material with eyes, skin and clothing. Wash thoroughly after handling.

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Static Hazard:** Electrostatic Charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation and vacuum truck operations) and use appropriate mitigating procedure. For more information, refer to OSHA Standard 29 (CFR 1910, 106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, Recommended Practice on static Electricity", and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lighting, and Stray Current'.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and /or Vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

## SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

### GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practice are not adequate to prevent exposure to harmful levels of this material, the personal equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with equipment since protection is usually provided for limited time or under certain circumstances.

### ENGINEERING CONTROLS:

Use in a well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended limits.

### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No Special eye protection is normally required. Where splashing is possible, wear safety glasses with slide shields as a good safety practice. If this material is heated, wear chemical goggles or safety glasses or a face shield.

**Skin Protection:** No Special protective clothing is normally required. Where splashing is possible, selecting protective clothing depending on operations conducted physical requirements and other substances. Suggested material for protective gloves include: Nitrile Rubber, Silver Shield, Viton. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practice are not adequate to prevent skin contact.

**Respiratory Protection:** No Respiratory protective is normally required. If use operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Exposure Limit (PEL) of 5 mg/M<sup>3</sup> for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure, air supplying respirator if there is potential for uncontrolled release, exposure levels are not known or other circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:**

| Component                             | Limit     | TWA                 | STEL                 | Ceiling | Notation |
|---------------------------------------|-----------|---------------------|----------------------|---------|----------|
| Highly refined mineral oil (C15- C50) | ACGIH_TLV | 5 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup> |         |          |
| Highly refined mineral oil (C15- C50) | OSHA_PEL  | 5 mg/m <sup>3</sup> |                      |         |          |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and Odour:** Dark amber liquid

**pH:** NA

**Vapour Pressure:** 0.0001 torr (Estimated) @ 20°C

**Vapour Density (Air = 1):** NDA

**Boiling Point:** NDA

**Solubility:** Insoluble in water

**Freezing Point:** NDA

**Specific gravity:** 0.9273 @ 60°Fs

**Density:** 7.72 lb/gal @ 60°F

**Viscosity:** 4220 cSt @ 40° C

**Coefficient of Therm Expansion / °F:** 0.00038

**SECTION 10 STABILITY AND REACTIVITY**

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to Avoid:** Do not heat above flash point.

**Incompatibility with other Materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxide etc.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

### IMMEDIATE HEALTH EFFECTS

**Eye Irritation:** The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

**Acute Inhalation Toxicity:** The acute Inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

### ADDITIONAL TOXICOLOGICAL INFORMATION:

This product contains petroleum bases oils which may be refined by various processes including severe solvent extraction, severe hydro cracking, or severe hydro treating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910-1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to human (Group 2A), or possibly carcinogenic to humans (Group 2B).

## SECTION 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

This material is not expected to be harmful to aquatic organism. The ecotoxicity hazard is based on data for a similar material.

### ENVIRONMENTAL FATE

#### Ready Biodegradability:

This material is not expected to be readily biodegradable. The biodegradability of this material is based on data for a similar material.

## SECTION 13 REGULATORY INFORMATION

### SARA

- |                                      |    |
|--------------------------------------|----|
| 1. Immediate (Acute) Health Effects: | No |
| 2. Delayed (Chronic) Health Effects: | No |
| 3. Fire Hazard:                      | No |

4. Sudden Release of Pressure Hazard: No  
5. Reactivity Hazard: No

**REGULATORY LISTS SEARCHED:**

|                           |                           |                         |
|---------------------------|---------------------------|-------------------------|
| 4_I1=IARC Group 1         | 12=TSCA Section 8(a) PAIR | 21=TSCA Section 5 (a)   |
| 4_I2A=IARC Group 2A       | 12=TSCA Section 8(d)      | 25=CAA Section 112 HAPs |
| 4_I2B=IARC Group 2B       | 15=SARA Section 313       | 26= CWA Section 311     |
| 05=NTP Carcinogen         | 16=CA Preposition 65      | 28= CWA Section 307     |
| 06=OSHA Carcinogen        | 17=MA RTK                 | 30=RCRA Waste P-List    |
| 09=TSCA 12(b)             | 18=NJ RTK                 | 31=RCRA Waste U-List    |
| 10=TSCA Section 4         | 19= DOT Marine Pollutant  | 32=RCRA Appendix VIII   |
| 11=TSCA Section 8(a) CAIR | 20=PA RTK                 |                         |

No components of this material were found on the regulatory lists above.

**CHEMICAL INVENTORIES:**

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substance (AICS).

CANADA: All the components of this material are on the Canadian Domestic Substance List (DSL).

PEOPLE'S REPUBLIC OF CHINA: All the components of this product are listed on the draft Inventory of Existing Chemical Substance in China.

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substance (ENCS) Inventory in Japan, or have an exemption from listing.

KOREA: All the components of this product are on the Existing Chemical List (ECL) in Korea.

PHILIPPINES: All the components of this material are listed on the Philippine Inventory of Chemical & Chemical Substance (PICCS).

SWITZERLAND: This material contains components that require notification before sale or Importation into Switzerland.

UNITED STATES: All of the components of this material are on the Toxic Substance Control Act (TSCA) Chemical Inventory.

**EU RISK AND SAFETY PHRASES:**

R53: May cause long-term adverse effects in the aquatic environment.

S56: Dispose of this material and its container at hazardous or special waste collection point.

S57: Use appropriate container to avoid environment contamination.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid Release to the environment. Refer to special instructions/Safety data sheets.

**WHMIS CLASSIFICATION:**

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

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| <b>SECTION 14 OTHER INFORMATION</b> |
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**NFPA RATINGS:**            Health: 0            Flammability: 1            Reactivity: 0

(0 – Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE: - Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings)

**LABEL RECOMMENDATION:**

Unolp label Code: Z

**REVISION STATEMENT:** Changes have been made throughout this material Safety Data Sheet.

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

- |      |   |                           |     |   |                                  |
|------|---|---------------------------|-----|---|----------------------------------|
| TLV  | - | Threshold Limit Value     | TWA | - | Time Weighted Average            |
| STEL | - | Short-term Exposure Limit | PEL | - | Permissible Exposure Limit       |
| NDA  | - | No Data Available         | CAS | - | Chemical Abstract Service Number |
| <=   | - | Less Than or Equal to     | NA  | - | Not Applicable                   |
|      |   |                           | >=  | - | Greater than or Equal to         |

|   |
|---|
| Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910 –1200) and the ANSI MSDS Standard (Z400.1). |
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| <p><b>The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.</b></p> |
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