

# MATERIAL SAFETY DATA SHEET

Revision #: 03

## Section 1 - Product Identification & Use

Product Name: **Unisol**  
WHMIS Classification: Class B2, Flammable Liquid,  
Class D2A, Very toxic material  
TDG Classification: FLAMMABLE LIQUID, N.O.S.  
Class 3, UN1993, III.  
Manufacturer: Advance Chemicals Ltd.  
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## Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD <sub>50</sub> & LC <sub>50</sub>
Kerosene	36-40	8008-20-6	no data
Petroleum Naphtha	10-14	64742-94-5	no data
Dimethylbenzenes	10-15	1330-20-7	(oral, rat) 4.3g/kg
Ethylbenzenes	1-5	100-41-4	no data

## Section 3 - Physical Data

Physical state: liquid Boiling point: 279-302°F  
Specific gravity: 0.91 g/mL Freezing point: <-20°F  
Solubility in water: insoluble Log P<sub>ow</sub> : >3  
Vapour pressure: 5.1mm @ 68°F Vapour density: heavier than air  
Evaporation rate: slower (relative to n-butyl acetate)  
VOCs: 16% pH: no data  
**Odour & Appearance:** The product is a dark red aromatic liquid solution.

## Section 4 - Fire or Explosion Hazard

**Flammability:** Flash Point: 90-100°F  
**Extinguishing media:** Take care not to splash the product. Wear full chemical protective clothing. Use alcohol foam, carbon dioxide (CO<sub>2</sub>), dry chemical. Water spray may be used for controlling fumes, protecting exposed material or on overheated containers. Be sure water does not spread fire.  
**Unusual Fire & Explosion Hazards:** Solvent vapours are an explosion hazard. Keep material away from all sources of ignition; extreme heat, open flames and any situation which may produce static or electric discharge, sparks or sparks resulting from frictional contact. Closed containers may explode from vapour pressure increases when exposed to extreme heat. Cool overheated containers with water spray, but do not spread the fire with cooling water. Vapours may travel great distances and ignite and flashback to sources.  
**Hazardous Combustion Products:** No data found.

## Section 5 - Reactivity Data

**Stability:** Stable.  
**Incompatible substances:** No data found.  
**Polymerization:** Will not occur.  
**Conditions to Avoid:** Extreme heat, open flames or sparks.  
**Hazardous Combustion Products:** This product will produce oxides of carbon, and oxides of nitrogen when subjected to heat.  
**Materials to Avoid:** Strong oxidizing agents, strong reducing agents, acids.

## Section 6 - Toxicological Properties

**Acute Toxicity:** No information available.  
**Carcinogenicity:** No data found.  
**Inhalation:** Vapours may irritate the respiratory tract. May lead to headache, dizziness, nausea, vomiting, and unconsciousness.  
**Skin contact:** Liquid may irritate and dry the skin. Prolonged contact may lead to burns and blisters and may aggravate dermatitis.  
**Eye contact:** Vapours may irritate the eyes. Liquid is irritating and potentially damaging to the eyes.  
**Ingestion:** May lead to headache, dizziness, nausea, and abdominal pain.

## Section 7 - Preventative Measures

**Personal Protective Equipment:** Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield,

rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.

**Respiratory protection:** For vapours and mist, use a high efficiency particulate respirator equipped with a full-face piece.

**Ventilation Requirements:** This product should be used in a well-ventilated area at all times.

**Action to take for spills & leaks:** Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be wiped up with absorbent material and disposed of in government approved waste containers. Larger spills should be contained by diking with sand, soil or other absorbent, non-combustible material, and then transferred into approved waste containers for proper disposal. Do not allow spilled or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

**Disposal methods:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

**Note:** Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

**Storage & Handling Precautions:** Warning, harmful if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well-ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

**Repair and Maintenance Precautions:** Do not cut, grind, weld or drill in, on or near this container.

## Section 8 - First Aid Measures

**If inhaled:** Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

**In case of eye contact:** Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eyelids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention.

**In case of skin contact:** Immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Launder clothes before re-use.

**In case of ingestion or swallowing:** If victim is conscious, dilute stomach contents by giving large amounts of water or milk. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

## Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

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