



SUPERIOR SOLVENTS AND CHEMICALS  
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**MATERIAL SAFETY DATA SHEET**

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**SECTION 1** **PRODUCT IDENTIFICATION**

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**PRODUCT NAME:** Hexylene Glycol  
**CHEMICAL NAME:** Hexylene Glycol  
**CHEMICAL FAMILY:** Glycol  
**FORMULA:** C6H14O2  
**SYNONYMS/TRADE NAMES:** 2-Methyl 2, 4 Pentanediol  
**CAS NUMBER:** 107-41-5  
**CAS NAME:** Hexylene Glycol

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**SECTION 2** **INGREDIENTS**

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**PRODUCT:** HEXYLENE GLYCOL  
**CONTENT:** 100 %  
**HAZARD:**

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**SECTION 3** **ACUTE TOXICITY DATA**

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**ACUTE ORAL LD50** 3.7 G/KG (RAT)  
**ACUTE DERMAL LD50** 12.0 G/KG (RABBIT)  
**ACUTE INHALATION LC50** No deaths at 66 ppm/6hr (RAT)

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**SECTION 4** **PHYSICAL/CHEMICAL CHARACTERISTICS**

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**BOILING POINT:** 388 deg F  
**SPECIFIC GRAVITY(H2O=1):** 0.9  
**VAPOR PRESSURE (MMHG):** 0.05 @ 68 deg. F  
**VAPOR DENSITY (AIR=1):** 3.9  
**EVAPORATION RATE:** <0.01  
**SOLUBILITY IN WATER:** COMPLETE  
 (N-BUTYL ACETATE = 1)  
**PERCENT VOLATILE BY VOLUME:** N/A  
**APPEARANCE AND ODOR:** Colourless, slightly viscous liquid;  
 nearly odorless

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**SECTION 5** **FIRE AND EXPLOSIVE HAZARD DATA**

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FLASH POINT: 209 deg F (TCC)  
 FLAMMABLE LIMITS IN AIR: LEL 7.4 (EST)  
 % BY VOLUME: UEL 1.3 (calculated)  
 EXTINGUISHING MEDIA: Water fog, alcohol "foam", dry chemical or carbon dioxide.  
 SPECIAL FIRE FIGHTING PROCEDURES: Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet face shield, bunker coats, gloves and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus. cool fire exposed containers with water. Don't spray pool fires directly, a liquid can cause frothing.  
 UNUSUAL FIRE AND EXPLOSIVE HAZARDS: None

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SECTION 6

REACTIVITY DATA

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STABILITY: Stable  
 CONDITIONS TO AVOID: None  
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agent, strong acids.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.  
 HAZARDOUS POLYMERISATION: Will not occur  
 EXPLOSION HAZARDS

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SECTION 7

HEALTH HAZARD DATA

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OCCUPATIONAL EXPOSURE LIMITS

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EXPOSURE LIMITS: TWA 25 - ceiling ACGIH/OSHA

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EFFECTS DUE TO ACUTE OVEREXPOSURE - EMERGENCY FIRST AID PROCEDURES

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SWALLOWING: May be absorbed and produce central nervous system (CNS) depression. Early moderate CNS depression may be evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness and death may occur.  
 Do not give liquid if victim is

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SECTION 7 CONT.

HEALTH HAZARDS

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unconscious or very drowsy. Otherwise give no more than 2 glasses of water and induce vomiting by giving 30 cc (2 tbs) syrup of Ipecac. Get medical attention.

**INHALATION:**

Vapors (100ppm) may cause nasal and respiratory irritation. Pre-existing respiratory disorders may be aggravated by exposure to Hexylene glycol. Remove victim to fresh air and provide oxygen if breathing is difficult, Give artificial respiration if not breathing. Get medical attention.

**EYE CONTACT:**

Liquid and vapors (50ppm concentration) may cause eye irritation, liquid may cause corneal injury, which is reportedly slow to heal. Pre-existing eye disorders may be aggravated by exposure. Flush with water for 15 minutes while holding eyelids open. Get Medical attention.

**SKIN CONTACT:**

Liquid may cause slight to moderate skin irritation, No evidence of adverse effects by skin absorption from available information. Pre-existing skin disorder may be aggravated by exposure. Flush with water while removing contaminated clothing and shoes. Follow by washing with soap and water. If irritation persists get medical attention.

**NOTE TO PHYSICIAN:**

If victim is a child give no more than 1 glass of water and 15 cc (1 tbs) syrup of Ipecac. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered, following intubation with a cuffed endotracheal tube.

**OTHER HEALTH HAZARDS:**

None known at this time.

**EFFECTS OF REPEATED OVEREXPOSURE:**

No information of adverse effects available.

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

None Known

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SECTION 8

PRECAUTIONS FOR SAFE HANDLING AND USE

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**IN CASE MATERIAL IS  
SPILLED OR RELEASED:**

May burn, although not readily ignitable. Use caution judgement when cleaning up large spills. Large spills; Wear respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Small spills; Take up with an absorbent material. Shovel residue and small spills, absorbed in inert into a container for disposal

**WASTE DISPOSAL:**

Liquids and solids may be dispatched to approved waste disposal facilities in conformance with local, state, and federal regulations. Liquid hexylene glycol may be incinerated if facilities available, or at low concentration in water, can be biodegraded in a biological waste water treatment plant. Both disposal routes subject to issuance of suitable permits.

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**SECTION 9**

**CONTROL MEASURES**

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**RESPIRATORY PROTECTION:**

If exposure may or does exceed occupational exposure limits (section 1) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910,134 use either an atmosphere supplying respirator or an air purifying respirator for organic vapors.

**PROTECTIVE GLOVES:**

Chemical resistant gloves

**EYE PROTECTION:**

Chemical goggles

**VENTILATION:**

Ventilation adequate to maintain vapor concentration below recommended TLV (section 1) Local exhaust may be required if product subject to high temperatures.

**OTHER PROTECTIVE  
EQUIPMENT:**

Safety shower, eye bath and washing facilities should be available.

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**SECTION 10**

**SPECIAL PRECAUTIONS IN HANDLING AND STORAGE**

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- Store containers in a cool dry place with adequate ventilation
- Keep away from flames and high temperatures
- Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities

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 SECTION 11

## HAZARD RATING

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 NFPA/HMIS

HEALTH

1

FLAMMABILITY

1

REACTIVITY

0

KEY: 4 Severe, 3 Serious, 2 Moderate, 1 Slight, 0 Minimal

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 SECTION 12

## TRANSPORTATION CLASSIFICATIONS

## DEPARTMENT OF TRANSPORTATION:

D.O.T. SHIPPING NAME

U.N. NUMBER:

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 SECTION 13

## REGULATORY CONTROLS

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 The information contained above is based on available data and is believed to be correct. Lintott Resources Inc, makes no warranty expressed or implied regarding the accuracy of the data and obtained results. Lintott Resources Inc. assumes no responsibility for the injury from usage of this product.

Prepared: June 1997