



- SKIN** Remove contaminated clothing. Wash skin with soap & water. If irritation develops, contact a physician.
- INGESTION** Do NOT induce vomiting. If conscious, have victim rinse mouth, then drink large amounts of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
- INHALATION** Remove the victim to cool uncontaminated area Monitor the patient for respiratory distress
- CAUTION** If unconscious - having trouble breathing - or in convulsions do not induce vomiting or give water.

Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

**SECTION 6 :- HEALTH EFFECTS DATA**  
**Primary Route(s) of Exposure : Eye, Skin, Inhalation and Ingestion**

- EYE CONTACT (ACUTE)** May cause irritation, tears, blurred vision and redness to the eyes.
- EYE CONTACT (CHRONIC)** May cause eye injury which may persist for several days.
- SKIN CONTACT (ACUTE)** May cause irritation and damage to skin
- SKIN CONTACT (CHRONIC)** Prolonged or repeated contact may cause severe irritation with local discomfort or pain and local redness and swelling.
- INGESTION (ACUTE)** Headache and general weakness may occur The substance is moderately toxic if swallowed. Swallowing large quantities may cause vomiting .
- INGESTION (CHRONIC)** Unknown
- INHALATION (ACUTE)** Inhaling mist, dust or spray may be irritating to the upper respiratory tract. Depending on the severity of exposure, may also cause tissue damage. This material may cause a decrease in alertness, coughing, sneezing.

**SECTION 7 :- PERSONAL PROTECTIVE DATA**

- RESPIRATORY PROTECTION** If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. See 29CFR 1910.134 for details. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure demand, self contained breathing apparatus is recommended.
- VENTILATION** General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.

**PROTECTIVE EQUIPMENT**

Chemically resistant apron, boots and gloves. Recommended material of construction: PVC, rubber. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder clothing before reuse. Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended. Consult with your Safety Professional/Industrial Hygienists for specific information regarding applications at your facility.

These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility

**SECTION 8 :- TOXICOLOGY DATA****TOXICITY STUDIES :**

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

**ACUTE ORAL TOXICITY** Unknown

**ACUTE DERMAL TOXICITY** Potassium Hydroxide: LD50 = 50 mg/24H (Rabbit)

**ACUTE RESPIRATORY TOXICITY** Unknown

Listed as suspected carcinogen by :

**IARC** NO

**NTP** NO

**OSHA** NO

**SECTION 9 :- REACTIVITY DATA**

**INCOMPATIBILITY** Unknown

**HAZARD DECOMPOSITION PRODUCTS** Thermal decomposition may yield carbon monoxide and/or carbon dioxide.

**STABILITY** Stable

**CONDITIONS TO AVOID** Unknown

**HAZARDOUS POLYMERIZATION** No hazardous polymerization.

**SECTION 10 :- SPILLS & DISPOSAL DATA**

In case of Transportation Accidents, call the following 24 hour telephone number :

**CHEMTREC (1-800-424-9300)**

**SPILL CONTROL AND RECOVERY** Evacuate and ventilate area. Eliminate ignition sources. Use caution - spills cause floors to become slippery. Soak up into inert adsorbent material. DO NOT use sawdust or other organic materials. Collect for disposal in a plastic recovery drum. Use non-sparking tools. Flush residue with water to chemical drain. Avoid discharge to sewers or natural waters.

**DISPOSAL**

Incinerate or dispose of by an approved method at an approved secure facility. Do not discharge into waterways or sewer systems without proper authorization.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

**SECTION 11 :- TRANSPORTATION DATA**

**DOT PROPER SHIPPING NAME** COMBUSTIBLE LIQUID, N.O.S.  
(CONTAINS CITRUS OIL)

**HAZARD** COMBUSTIBLE LIQUID / 0.1

**UN/NA#** NA1993

**DOT REPORTABLE QUANTITY (RQ)** NOT APPLICABLE **Pkg Grp** III

**IMO NAME** FLAMMABLE LIQUID, N.O.S. UN1993 3345

**IMO Class/Sub Class** FLAMMABLE LIQUID/3.3/0

**UN/NA#** UN1993/3345 **Pkg Grp** III

**IATA NAME** FLAMMABLE LIQUID, N.O.S.

**IATA Cls/Sub Cls** FLAMMABLE LIQUID/3/0

**UN/NA#** UN1993 **Pkg Grp** III

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

**SECTION 12 :- GENERAL STORAGE DATA**

**STORAGE TEMPERATURE:** Maximum: 100.00°F 37.77°C Min: 35 F 2 C

Material should be stored in the properly sealed original container Combustible. Keep away from heat, flames and all sources of ignition.

**SECTION 13 :- REGULATORY DATA**

The following regulations apply to this product.

**FEDERAL REGULATIONS**

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our evaluation, the following ingredients in this product are subject to this rule:

Chemical Name	CAS#	By Weight%	OSHA-PEL	ACGIH-TLV
Potassium Hydroxide	1310-58-3	1 - 5	N/A	2 MG/M3
Citrus Terpenes	Trade	25 - 35	N/A	N/A
Butyl Carbitol	Secret	5 - 15	N/A	N/A
Dodecylbenzene Sulfonic Acid	112-34-5	0 - 5	N/A	N/A
	27174-87-0			

**CERCLA/SUPERFUND, 40 CFR 117, 302/304:** Notification of spills of this product is not required

**SARA/SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (TITLE III)**

**Sections 302, 311, 312 & 313**

**SECTION 302 : Extremely Hazardous Substances**

This product does not contain ingredient(s) listed in APPENDIX A of 40 CFR 355.

**SECTIONS 311 & 312 - M.S.D.S REQUIREMENTS (40 CFR 370)**

This product contains ingredient(s) that may require reporting under Hazardous Chemical Inventory Reporting

- Immediate (Acute) health hazard
- Sudden release of pressure hazard
- Delayed (Chronic) health hazard
- Reactive Hazard
- Fire hazard

Under Section 311, submittal of MSDS or a list of product names to the local emergency planning commission, state emergency response commission, the local fire department is required after October 17, 1987. Consult the regulation for pertinent changes and updates.

**SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)**

This product does not contain ingredient(s) listed under 40 CFR 372.65

Ingredient	CAS#	By Weight %
Butyl Carbitol	112-34-5	5 - 15

**RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR 261 SUBPARTS C & D**

Please refer to section 10, disposal information for pertinent data.

**TOTAL TOXIC ORGANICS**

This product ingredient(s) on the list of Total Toxic Organics.

**OSHA PROCESS SAFETY (1910.119)**

This product does not contain ingredient(s) listed in APPENDIX A of 29 CFR 1910.119 of Highly Hazardous Chemicals, Toxics, and Reactives of OSHA process safety management.

**CLEAN AIR ACT**

This product contains ingredient(s) listed on the Hazardous Air Pollutants of CAA 40 CFR 112(G).

Ingredient	CAS#	By Weight %
Butyl Carbitol	112-34-5	5 - 15

**OZONE DEPLETING SUBSTANCES**

This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

**STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

This product complies with ingredient(s) listed on California Prop 65 suspected carcinogen List.

**MICHIGAN CRITICAL MATERIALS**

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.

Prepared by MacDermid Inc. Safety & Regulatory Compliance Department, based upon publicly available reference information.

#### **SECTION 14 :- USER NOTIFICATION**

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.

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