
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ISOPROPYL ALCOHOL General Use: Cleaning dies and counters.

Company: UEI™ Systems, A Division of Universal Engraving, Inc.
9090 Nieman Road Overland Park, KS, USA 66214
1-800-821-8864 or 913-599-0244

EMERGENCY CONTACT: 1-800-424-9300 United States and Canada 01-703-527-3887 International

2. HAZARDOUS INGREDIENTS

	CAS No.	OSHA PEL	ACGIH TLV
Isopropyl alcohol	67-63-0	400 ppm	400 ppm

3. HAZARDS IDENTIFICATION

Clear liquid with solvent odor. Carcinogenicity: NA

Routes of Entry: Inhalation, Ingestion, Skin Absorption.**Eye contact:** Eye irritant. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness, swelling, and eye damage.**Skin contact:** Skin irritant. Prolonged or repeated contact may cause redness, burning, and drying/cracking of the skin. Skin absorption possible but symptoms of toxicity are not anticipated under normal conditions of use. Pre-existing skin disorders may be aggravated.**Inhalation:** Low degree of toxicity, but breathing high concentrations of vapors or mists may cause nose/throat irritation, headache, drowsiness, dizziness, loss of coordination, fatigue, and nausea/vomiting. Pre-existing respiratory conditions of lung disorders may be aggravated by exposure to this material.**Ingestion:** Low degree of toxicity, but ingesting large quantities may cause digestive tract irritation, headache, drowsiness, dizziness, loss of coordination, fatigue, and diarrhea.**Health Hazards (Acute and Chronic):** Causes harm to the fetus in laboratory animal studies. Relevance of these findings to humans is uncertain. Repeated and prolonged overexposure to solvents can cause permanent brain and nervous system damage. Misuse by deliberately concentrating and inhaling this product may be harmful or fatal.**Signs and Symptoms of Exposure:** Irritation to product. Skin sensitization (allergy) as evidenced by rashes.

4. FIRST AID MEASURES

In all cases call a physician immediately.

INGESTION: If vomiting occurs keep head below hips to prevent aspiration of liquid into lungs.**INHALATION:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.**EYE CONTACT:** Flush eyes with large amounts of water for at least 15 minutes.**SKIN CONTACT:** Remove contaminated clothing and shoes. Wipe skin. Flush skin with soap and lots of water for at least 15 minutes. Do not re-use clothing until cleaned.

5. FIRE FIGHTING MEASURES

Flash Point: 53° F (TCC) Flammable Limits: LEL: 2.0 UEL: 12.0

Extinguishing Media: Carbon Dioxide, Dry Chemical, Alcohol foam, or Appropriate Foam. Water spray can be used. Water may be ineffective.**Special Fire Fighting Procedures:** Caution, this product is extremely flammable and may be ignited by heat, sparks, flames, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapors are heavier than air and may accumulate in low areas. May create vapor/air explosion hazard indoors, outdoors, or in sewers. Do not enter confined fire without full bunker gear (helmet with shield, bunker coat, gloves, and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.**Unusual Fire and Explosion Hazards:** Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in a container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

6. ACCIDENTAL RELEASE MEASURES

Caution. Flammable material. Eliminate potential sources of ignition. Clean-up personnel should wear protective clothing.

Large spills: Evacuate area. Call local fire station. Shut off source of leak only if safe to do so. Dike and contain.**Small spills:** Take up with an absorbent material and place in non-leaking containers for proper disposal. Comply with local, state, and federal waste regulations.

7. HANDLING AND STORAGE

Store at room temperature in cool, dry area, adequately ventilated, away from open flames/high temperature. Empty containers may contain residue and should be disposed of properly according to local, state, and federal regulation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use only in a well-ventilated area. Wear chemical resistant rubber gloves, chemical safety goggles (contact lenses should not be worn), chemical resistant body covering, and boots. Safety shower and eye wash stations should be located in the work area. Wash thoroughly after handling product. Keep liquid and vapor away from heat, sparks, and flame.

9. PHYSICAL AND CHEMICAL PROPERTIESBoiling Point: 180° F
Vapor Density (Air=1): 2.1
Solubility in Water: 100 %Viscosity: NA
Melting Point: -127° F

Appearance: Clear, little if any color; solvent odor.

Vapor Pressure: 37 mm @ 20° C
Specific Gravity (Water=1): 0.786
pH: NA
Evaporation Rate (n-Butyl Acetate=1): 1.7
Physical State: Liquid

10. STABILITY AND REACTIVITY

Stability: Stable Conditions to Avoid: NA Hazardous Polymerization: Does NOT polymerize.

Incompatibility: Avoid heat, sparks, open flame, and contact with strong oxidizing agents. Selected amines, alkali metals, halogens, anhydrides, isocyanates, acetaldehyde, chlorine, ethylene oxide, hydrogen peroxide, organometallic contaminants, and aluminum.

Hazardous Decomposition or By-products: Avoid heat. Avoid breathing vapor or mists. Thermal decomposition in the presence of air may yield monoxide and/or carbon dioxide.

11. OTHER INFORMATION

UEI™ Systems provides the information contained herein in good faith. The information is believed to be correct. However it is not all inclusive and should be used only as a guide. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. UEI™ Systems shall not be held liable for any damage resulting from handling or from contact with the product listed herein.

National Fire Rating

	Hazard Rating	
Health	1	0 - least
Fire	3	1 - slight
Reactivity	0	2 - moderate
Special Note	none	3 - high
		4 - extreme

Abbreviations:

PEL - Permissible Exposure Limit
TLV - Threshold Limit Value
TCC - Tagiabue Closed Cup
LEL - lower explosive limits
UEL - upper explosive limits
NA - Not Applicable