

**IMPORTANT**  
**MATERIAL SAFETY DATA SHEET**

READ CAREFULLY BEFORE USING CHEMICAL.  
OSHA requires that this form be kept on file.

**Product No.** C3991H  
**Product Name** ISOPROPYL ALCOHOL

HAZARDOUS INGREDIENTS OF MIXTURES		
Principal Hazardous Component(s)	REL %	TLV Units
Isopropyl Alcohol*	N/A	N/A
	N/A	N/A

\* chemical subject to the reporting requirements of SARA Title III

PHYSICAL DATA	
Melting Point (°F)	-89° C
Boiling Point (°F)	82° C
Vapor Pressure (mm Hg)	33 @ 25° C
Vapor Density (Air=1)	2.1
Solubility in Water	100 %
Appearance & Odor	Clear colorless liquid, mild odor.

FIRE AND EXPLOSION HAZARD DATA	
Flash Point (Method Used)	12° C closed cup
Extinguisher Media	Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool.
Flammable Limits in Air by Volume	Lower: 2.0 Upper: 12.0

**Special Firefighting Procedures**  
In the event of a fire, wear full protective clothing and NIOSH-approved breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Water may be used to dilute spills to a non-flammable mixture.

**Unusual Fire and Explosion Hazards**  
**FLAMMABLE!** Autoignition temperature 399°C.  
Above flash point, vapor air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire or explosion.

**SECTION V HEALTH HAZARD DATA**

Threshold Limit Value  
400 ppm (TWA)  
**Effects of Overexposure**

**Acute:** Irritation to skin, eyes, lungs, mucous membranes, and GI tract. Nausea, narcosis, drowsiness, dizziness.  
**Chronic:** Dermatitis.

**Emergency and First Aid Procedures**

**Skin:** Remove contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.  
**EYES:** Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.  
**INHALATION:** Remove to fresh air, if not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN.  
**INGESTION:** If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

**SECTION VI REACTIVITY DATA**

**Stability**  
Stable  Unstable   
**Conditions to Avoid**  
Avoid heat and ignition sources.

**Incompatibility (Materials to Avoid)**  
Strong oxidizer, aluminum, perchloric acid, ethylene oxide.

**Hazardous Decomposition Products**  
Carbon oxides.

**Hazardous Polymerization**  
May Occur  Will Not Occur   
**Conditions to Avoid**  
None

**SECTION VII SPILL OR LEAK PROCEDURES**

**Steps to be taken in Case Material is Released or Spilled**

Ventilate area of leak or spill. Remove all sources of ignition. Clean up personnel require protective clothing and respiratory protection from vapors. Small spills may be absorbed on paper towels and evaporated in fume hood. Allow enough time for fumes to clear hood, then ignite paper in a suitable location away from combustible materials. Contain and recover liquid when possible.

**Waste Disposal Method**

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Can be liquid incinerated in RCRA approved combustion chamber or absorbed with vermiculite, dry sand, earth or similar materials. Scoop up with non-sparking tools and place in closed container, and dispose in a RCRA approved facility. Do not flush to sewer.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

**Respiration Protection (Specify type)**  
Organic cartridge.

**Ventilation**  
Local Exhaust  X  
Mechanical (General)  X  
Special Other

**Protective Gloves**  
Poly or rubber

**Other Protective Equipment**  
Lab coat

**SECTION IX SPECIAL PRECAUTIONS**

**Precautions to be Taken in Handling & Storing**  
Keep container tightly closed when not in use.

Store in cool, well ventilated place.

**Other Precautions**

Read label on container before using. Do not wear contact lenses when working with chemicals.  
**Conditions Aggravated/Target Organs:** Persons with pre-existing skin, eye, respiratory disorders may be more susceptible.

**Approved by** Steven C. Quant **Effective Date** 05/15/95

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