

903-5

Celeste Industries Corp.
7978 Industrial Park Road
Easton, Maryland 21601

EMERGENCY CONTACT: 410-822-5775
SPILL EMERGENCY: 410-822-5775
CHEMTREC: 800-424-9300

Document control number: MS41 - Rev 4

PART NUMBER: LB136

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Material Name : Isopropyl Alcohol, 91%
MSDS Date : 5 APRIL 1999
Supersedes : 11 MARCH 1997
Prepared By : M L RISSOLO

Hazard Rating
Health 1
Fire 3
Reactivity 0
Personal Protective Equipment. B

Scale: 4- Extreme 1- Slight
3- High 0- Insignificant
2- Moderate

COMPONENT INFORMATION

Exposure Limit Information in ppm

COMPONENT	CAS NO.	AMT. (%)	OSHA		ACGIH	
			TWA	STEL	REL TWA	15 min ceiling
ISOPROPYL ALCOHOL	67-63-0	91	400	500	400	800 ppm
					10 hour	(NIOSH)

EMERGENCY RESPONSE INFORMATION

FIRST AID PROCEDURES

Inhalation: Move patient to fresh air. Seek medical attention immediately, if unconscious. (Overexposure only likely with large quantities in a confined space.)

Eye Contact : Flush immediately with clean water for at least 15 minutes.

Skin Contact: Wash well with soapy water. Can cause irritation with repeated exposure.

Ingestion: If ingested, call a physician immediately. If patient is conscious, give water and induce vomiting.

SPILL OR LEAK HANDLING INFORMATION

Personal Protection: For small spills use rubber gloves & safety glasses. For larger spills use splash proof goggles or face shield & lab coat, apron, or overalls. In confined spaces, mask with organic vapor canister.

Procedures: Remove all ignition sources; ventilate area. Avoid contact with skin. Small quantities may be absorbed on paper towels and evaporated in a hood.

FIRE FIGHTING INFORMATION

Department of Transportation (DOT) Emergency Response Guide Number: 26

Unusual Hazards: Flammable liquid. Toxic gases (such as carbon monoxide and carbon dioxide) may be released in a fire. Vapors may travel long distances to ignition source and flash back. Dangerous fire hazard when exposed to heat, flame or oxidizers. Moderate explosion hazard when exposed to heat or flame.

Special Fire Fighting Procedures: Use water to keep fire exposed containers cool to disperse vapors, to flush spills away from exposures and to dilute spills to non-flammable mixtures.

Extinguishing Agents: Dry chemical, water spray or alcohol resistant foam.

Personal Protective Equipment: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

PHYSICAL/CHEMICAL CHARACTERISTICS

FIRE AND EXPLOSIVE PROPERTIES

Flash Point.....	61° F TCC
Auto-ignition temperature....	Not available
Lower Explosive Limit.....	2.0 %
Upper Explosive Limit.....	12.0 %

REACTIVITY INFORMATION

<u>Stability:</u>	Stable
<u>Conditions to Avoid:</u>	Heat and open flame.
<u>Hazardous Polymerization:</u>	Will Not occur.
<u>Incompatibility:</u>	Avoid strong oxidizing agents.

PERSONAL PROTECTION MEASURES

<u>Respiratory Protection:</u>	For normal use, none generally required, when using large amounts in confined spaces use mask with organic vapor canister.
<u>Eye Protection:</u>	For normal use, may wish to use safety glasses.
<u>Hand Protection:</u>	Rubber gloves recommended.

FACILITY CONTROL MEASURES

<u>Ventilation:</u>	Local - ventilation meeting ACGIH criteria. Explosion proof.
<u>Other Protective Equipment:</u>	Use plastic or rubber apron to protect clothing, if needed.

STORAGE AND HANDLING INFORMATION

<u>Storage Conditions:</u>	Usual precautions for flammable liquids.
<u>Handling Procedures:</u>	All handling equipment should be electrically grounded. Do not allow persons to enter confined areas.

SUPPLEMENTAL INFORMATION

Typical Physical Properties

Appearance.....	Clear Liquid
Color.....	Colorless
State.....	Liquid
Odor Characteristic.....	Characteristic Alcohol Odor
pH.....	Not available
Viscosity.....	Not available
Specific Gravity (Water = 1).....	0.82
Vapor Density (Air = 1).....	2.07
Melting Point.....	< -63.4° F
Boiling Point.....	176-180 Degrees F
Solubility in water.....	Completely Miscible
Percent Volatility.....	Not available
Evaporation rate (Butyl Acetate = 1).....	1.9

TOXICITY INFORMATION**Acute Data**

Oral LD50..(Rat).....	5.84/Kg
Dermal LD50....(Rabbit)	16g/Kg
Skin Irritation.....	Not Available
Eye Irritation.....	Not Available

WASTE DISPOSAL: Disposal in landfill approved for same, away from water supplies. Incineration is an alternate method. Dispose of in accordance with applicable federal, state, and local regulations.

Celeste Industries Corp.

P/N: LB136

REGULATORY INFORMATION

WORKPLACE CLASSIFICATIONS:

OSHA (USA): Not OSHA regulated. No ingredients identified by OSHA as hazardous are known to be present or the ingredients present are below the levels specified as hazardous by OSHA (Per 29 CFR 1910.1200)

WHMIS (Canada): Isopropyl Alcohol, 3.2, UN1219

TRANSPORTATION:**HAZMAT MARKING:**

Domestic(US): Isopropyl Alcohol, UN1219

International(ICAO/IATA): Isopropanol [Isopropyl Alcohol], UN1219

HAZMAT LABEL:

Domestic(US): Flammable Liquid

International(ICAO/IATA): Flammable Liquid

Packing Group: II

EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3)**Section 311/312 Categorizations (40CFR 370):**

This material contains no health or environmental hazardous substance at a level which requires notification under the Act.

Section 313 Information (40CFR 372):

This material contains no toxic chemical at a level which is reportable under SARA Toxic Chemical Release Reporting Regulations.

RCRA INFORMATION:

This material is not included in the lists of hazardous substances (40 CFR 261.33), nor does it exhibit the characteristics of hazardous waste (40 CFR 261.20-24)

Toxic Substances Control Act (TSCA):

All components in this material are in the TSCA Inventory

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. **Celeste Industries Corporation** assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

ABBREVIATIONS:

ACGIH = American Conference of Government Industrial Hygienists

IATA = International Air Transport Association

ICAO = International Civil Aviation Organization

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure

STEL = Short-Term Exposure Limit

TLV = Threshold Limit Value

TWA = Time Weighted Average

WHMIS = Workplace Hazardous Materials Information System