

MATERIAL SAFETY DATA SHEET

SECTION I SUPPLIER INFORMATION

Common Name: **CIS – LAYER 1**
Chemical Name:
Formula:
Supplier: **Fyfe Co. LLC**
6310 Nancy Ridge Drive, Suite 103
San Diego, CA 92121
Phone: Tel: 858-642-0694
Emergency Phone: Chem-Tel 1-800-255-3924 (24 hours)
Date Prepared: February 11, 2000

SECTION II HAZARDOUS INGREDIENT INFORMATION

CFR 29 Part 1910.1000 Table Z-1 (July 1, 1996 issue)

Ingredient	CAS Number	PEL-OSHA (ppm)	TWA-OSHA (mg/m ³)	TLV-ACGIH (ppm)	STEL-ACGIH (ppm)
Isopropyl Alcohol	67-63-0	400	983	500	

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 180 °F
Specific Gravity: 0.79
Melting Point: -127 °F
pH: 7.5 - 8.0
Vapor Pressure (mm Hg): 32 @ 68 °F
Vapor Density (Air=1): 2.1
Evaporation Rate (Butyl Acetate =1): 1.4
Solubility in Water: 100%
Appearance and Odor: A clear liquid with a strong alcohol odor
Biodegradability: 100%

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: 53 °F
Auto-Ignition Temperature: N/A °F
LEL: 2 %
UEL: 12 %
Extinguisher Media: Flammable liquid, use CO₂, Dry Chemical, Foam Extinguisher or water spray. Do not use a direct water stream.
Special Fire Fighting Procedures: Firefighter should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.
Unusual Fire and Explosion Hazards: Extinguish all nearby sources of ignition. Vapors formed from this product are heavier than air and may travel along the surface to a distant source of ignition and flashback.

SECTION V REACTIVITY DATA

Stability	Stable
Conditions and Materials to Avoid	Avoid heat, sparks, flame, and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 °F
Hazardous Decomposition or By-Products	Carbon monoxide and unidentified organic compounds may be formed during combustion.
Polymerization	Will not occur
Conditions to Avoid	None known

SECTION VI HEALTH HAZARD DATA

Inhalation	
Acute	May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.
Chronic	
Eye Contact	
Acute	Moderately irritating to the eyes
Chronic	
Skin Contact	
Acute	Mildly irritating to the skin.
Chronic	
Ingestion	
Acute	Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, and rapid heart beat and liver damage.
Chronic	
Medical Conditions Aggravated By Exposure	None known
Chemical Listed as Carcinogen or Potential Carcinogen	No
National Toxicology Program	No
I.A.R.C. Monographs : No OSHA : No	

ROUTES OF ENTRY/EMERGENCY AND FIRST AID PROCEDURES

Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
Eyes:	Rinse eyes with cool water for 15 minutes. Get medical attention.
Skin:	Wash off with soap and water. If irritation occurs, get medical attention.
Ingestion:	Drink two glasses of water and induce vomiting. Never give anything to an unconscious person. Get medical attention.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions To Be Taken In Handling and Storage: Keep product from freezing. If frozen, thaw and agitate before use.

Other Precautions : None

Steps To Be Taken In Case Material Is Released Or Spilled:

Large Spills: Dike and contain for intended use.

Small Spills: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Waste Disposal Method: Follow all Local, State, and Federal Regulations in your area.

SECTION VIII OTHER REGULATORY INFORMATION

SECTION 313 (With Chemicals Listed): This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372:

Ingredient	CAS Number	Weight Percent
None	NA	NA

SECTION IX SPECIAL PROTECTION & CONTROL MEASURES

RESPIRATORY PROTECTION: U.S. Bureau of Mines Respirator; self-contained breathing device, airline or NIOSH approved respirator.

The specific respirator selected must be based on contamination levels in the work place, must be based on the specific operation, must not exceed the working limits of the respirator, and must be jointly approved by the National Institute of Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

VENTILATION:	Local Exhaust xxx	Mechanical	Special	Other
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Protective Gloves: Rubber

Eye Protection: Goggles

Other Protective Clothing or Equipment: None

Work/Hygiene Practices : Keep off of clothing

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.