

Material Safety Data Sheet

Emergency Phone: (316) 945-9328 24-Hour CHEMTREC (800) 424-9300 CHEMTREC, D.C. Area 800-483-7616

I. Chemical Product And Company Data

PRODUCT: PRIMER1
CHEMICAL FAMILY: Silane
REVISION DATE: MAY 2004
MANUFACTURER: Balco, Inc.
 2626 S. Sheridan, Wichita, KS 67217

Health	3
Flammability	3
Reactivity	0
Personal Protection	H

II. Composition / Information On Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

HAZARDOUS INGREDIENTS	CAS NO	EXPOSURE LIMITS			CONTENT
		TLV	STEL	PEL	
Isopropanol	67-63-0	400ppm	500ppm	400ppm	98%
Balance	Proprietary				

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40 CFR 372)

Isopropanol 67-63-0

III. Hazards Identification

HMIS Hazard Rating No. 3

PRIMARY ROUTE OF ENTRY: Eye and skin contact, breathing and ingestion.

Symptoms of Exposure

Skin Contact: Prolonged or repeated exposure may cause irritation and may cause dermatitis
Eyes: Product may cause severe irritation, redness, tearing and blurred vision. May cause corneal injury.
Inhalation: Vapors are irritating to the respiratory tract; may cause headaches and dizziness; have an anesthetic effect on central nervous system.
Ingestion: Not expected to be a relevant route of exposure, although it may cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness.

IV. First Aid Measures

Inhalation Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance

Eyes Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.

Skin Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion Do not induce vomiting, get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.

V. Fire Fighting Methods

HMIS Hazard Rating No. 3

Flash Point: 12 °C (53 °F) Method: Pensky Martin C.C.

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: 399 °C (750 °F) (IPA)

Limits of Flammability LEL: 2% (IPA) UEL: 12% (IPA)

Extinguishing Media: For small fires, use water spray, foam, CO₂, or dry chemical. For large fires, use water spray, fog or alcohol foam.

Special Fire & Unusual Hazards: Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved, pressure demand self-contained breathing apparatus and full protective gear.

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Avoid contact with skin or eyes. Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbent material.

Waste Disposal Method: Handle disposal of waste material in manner which complies with local, state, provincial and federal regulation. Landfill if solidified, or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Average Shelf Life: Refer to Product Data Sheet

Special Instructions: Store in a cool, dry place.

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically

qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard. Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

Boiling Point (°C):	82 (IPA)	Water/Oil Distribution	
		Coefficient:	N/A
Percent Volatile:	98%	Solubility in Water:	Slight
Freezing Point (°C):	-89	Specific Gravity @ 20 °C:	0.787
Vapor Pressure @ 20 °C:	38 (IPA)	pH:	N/A
Vapor Density:	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	Alcohol
Appearance:	Amber liquid		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability:

Stable

Incompatibility:

Strong oxidizing agents, peroxide, reducing agents, and heat.

Hazardous Decomposition Products:

Oxides of Carbon; aldehydes; Decomposition and Combustion products may be toxic.

Conditions To Avoid:

See incompatibility.

XI. Toxicity Information

HMIS Hazard Rating No. 3

PRIMARY ROUTE OF ENTRY: Inhalation, dermal.

Effects Of Overexposure

Inhalation:

Vapors may irritate respiratory tract.

Eyes:

Contact can cause severe irritation.

Skin Contact:

In some individual it may cause sensitization.

Ingestion:

May cause permanent damage to the mouth, throat and stomach.

XII. Ecological Information

Marine Pollutant: NL

(NL = Not Listed; P = Moderate; PP = Severe; ND - Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in manner which complies with all applicable local, state, provincial and federal regulations.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name	Flammable Liquid N.O.S. (Isopropyl alcohol)		
DOT Hazard Class	3 PG II		
DOT I.D Number	UN1993	Label(s)	Flammable

XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)	Hazardous
CERCLA/ Super fund (40 CFR 117, 302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355)	N/A
SARA Hazard Categories (40 CFR 370)	Health: Immediate Physical: Fire
SARA Toxic Chemicals (40 CFR 372)	See supplier notification in section II.
Inventory Status	The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPLIED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, BALCO, INC. CAN NOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.