



# Material Safety Data Sheet

## IsoPrime II

### Single Component

#### MANUFACTURER

Chemline, Inc.  
5151 Natural Bridge Road  
St. Louis, MO 63115  
918-485-2835

Issue Date: May 2002  
Revised: January 2006  
Revised: July 2009  
Revised: January 2010  
Revised: February 2011

#### 1 - Chemical Product Identification

Product Code: 1291  
Product Name: **IsoPrime II** Single Component

#### 2 - Hazardous Ingredients/Identity Information

COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	Weight % <
*4,4' - Diphenylmethane Diisocyanate	101-68-8	ne	0.005 ppm	2.0 %
Trichloroethylene	79-01-6	100 ppm	50 ppm	55 %
Methylene Chloride	75-09-2	25 ppm	50 ppm	40 %
Aromatic Polyisocyanate	Proprietary	ne	ne	3.0 %
1,2 Butylene Oxide	106-88-7	ne	ne	1.0 %
Diphenylmethane Diisocyanate	26447-40-5	ne	0.005 ppm	1.0 %

\*Indicates toxic chemical subject to the reporting requirements of section 313 of Title II of 40CFR 372

This product is not DOT regulated: Proper shipping name: Not regulated  
Hazard Class: None  
Identification Number: None  
Emergency Guide Resp.: None  
Packing Group: None

HARMONIZED SYSTEM TARIFF#: **HS# 3506.99.0000**

	Health	Flammability <sup>1</sup>	Reac.
NFPA	2*	1	0
HMS	2	1	1

Indicates a chronic hazard, see Section 3.

Volatile organic compounds (calculated): 9.19 lbs./gal. 1101 grams/ltr

#### 3 - Hazards Identification

##### Emergency Overview

Purple liquid, with a sweet odor.  
Harmful if inhaled or absorbed through skin.  
May cause allergic skin reaction. May cause allergic respiratory reaction.  
Vapor harmful; may affect the brain or nervous system causing dizziness, headache or nausea. Causes skin and eye irritation. Causes respiratory tract irritation.

##### Effects of over-exposure:

Eye contact: Causes eye irritation.

Skin contact: May be absorbed through the skin in harmful amounts. May cause skin sensitization. May cause dermatitis. Causes skin irritation. Animal tests have indicated that respiratory sensitization can result from skin contact with 4,4'-Diphenylmethane diisocyanate.

**Inhalation:** Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. Allergic conditions can occur in certain individuals with high sensitivity to isocyanates; this may result in asthma-like symptoms. May cause respiratory sensitization and lung damage. Contains methylene chloride. Excessive exposure may cause carboxyhemoglobinemia, a condition which impairs the blood's ability to transport oxygen. Very high levels of exposure to methylene chloride may cause cardiac arrhythmias.

**Ingestion:** Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**Chronic hazards:** May cause liver or kidney damage. Repeated or prolonged solvent over-exposure may result in permanent nervous system damage. May cause long-term lung damage. Methylene chloride has been classified for carcinogenicity by IARC and by NTP as sufficient evidence for carcinogenicity in experimental animals; insufficient evidence in humans. Use of this product should comply with the OSHA Methylene Chloride Standard, 29CFR1910.1052. Chronic skin contact may cause dermatitis. IARC has designated trichloroethylene as Group 2A - limited evidence for carcinogenicity in humans and sufficient evidence in experimental animals. 1, 2 butylene oxide has been classified by IARC as a possible human carcinogen (Group 2B).

**Primary Route (s) of Entry:** Skin contact, skin absorption, inhalation, ingestion, eye contact.

#### 4 - First Aid Measures

**Eye contact:** Flush eyes immediately with large amounts of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

**Skin contact:** Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

**Inhalation:** Move person to fresh air. Restore and support continued breathing. If breathing is difficult give oxygen. Get immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

#### 5 - Physical/Chemical Characteristics

Boiling Point:	104°F - 189°F	Freeze Point:	Not determined
Vapor Pressure (mm Hg.):	Not determined	Volatile by Weight:	86.3%
Vapor Density (Air=1):	> 1	Density, Lb./Gal.	11.38
Melting Point:	No Data	pH:	Not applicable
Evaporation rate (H <sub>2</sub> O=1):	Slower than Eth	Odor Threshold:	Not determined
Solubility in Water:	Insoluble	Volatile by Volume:	84.5%
Specific Gravity (H <sub>2</sub> O= 1)	1.37	Physical State:	Liquid
Appearance and Odor:	Purple	Odor:	Sweet

#### 6 - Fire & Explosion Hazard Data

Flash Point (Setaflash Closed Cup): >200°F

Flammable Limits: Not established

Lower Exposure Limit 1.5 %

Upper Exposure Limit 44.80 %

Extinguishing Media: Carbon Dioxide, Dry chemical, foam, water fog.

Auto Ignition Temperature: Not determined.

OSHA Flammability Classification: Combustible liquid—Class IIIB

Special fire fighting procedures: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water spray may be ineffective. If water is used, fog nozzles are preferable. During a fire irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Unusual fire and explosion hazards: Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

#### 7 - Reactivity Data

**Stability:** Product is stable under normal storage conditions.

**Incompatibility:** Amines, acids, water, hydroxyl, or active hydrogen compounds. Aluminum, zinc, caustics, halogens.

**Hazardous decomposition or by products:** Monomeric isocyanate, traces of hydrogen cyanide, nitrogen dioxide.

Phosgene. Carbon monoxide, carbon dioxide.

Issue Date: May 2002  
Revised: January 2006  
Revised: July 2009  
Revised: February 2011

Polymerization: Hazardous polymerization will not occur under normal conditions.  
 Conditions to avoid: Aluminum or galvanized parts in a closed system. High temperatures.

## 8 - Spill or Leakage Procedures

If material is spilled or released: Keep non-essential personnel a safe distance away from the spill area. Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Contain and remove spill with inert material (sand). Avoid personal contact. Before attempting cleanup, refer to hazard caution information in other sections of the MSDS form.

Disposal method: Dispose of according to local, state, and federal regulations. Not a hazardous waste under RCRA, 40 CFR 261. Not RCRA regulated. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

Handling and storage: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Avoid using pressurizable equipment which has aluminum or zinc parts, this product contains chlorinated solvents. Use with adequate ventilation.

## 9 - Special Protection Information

Respiratory: This product contains isocyanates which have poor odor warning properties. If occupational exposure limits are exceeded, a NIOSH/MSHA approved supplied-air respirator is required. Contains methylene chloride, which has poor odor warning properties. Observe OSHA regulations (29CFR 1910.134)

Ventilation: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: solvent vapors are heavier than air and collect in lower levels of the work area.

Protective Gloves: Neoprene, nitrile, or rubber gloves are recommended to prevent skin contact.

Other Protective Clothing or Equipment: Safety glasses, chemical goggles, or face shields are recommended. Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

Work/Hygienic Practices: Wash thoroughly after handling. Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored.

## 10 - Toxicological and Ecological Information

Product LD50 Oral: No data Ecological Information: No information

Dermal: No data

Product LC50 No data

## 11 - Regulatory Information

U.S. Federal Regulations as follows: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

GatorHyde's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by GatorHyde as a customer service.

***This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of GatorHyde. The data on this sheet relates only to the specific material designated herein. GatorHyde assumes no legal responsibility for use or reliance upon this data.***

Issue Date: May 2002  
 Revised: January 2006  
 Revised: July 2009  
 Revised: January 2010  
 Revised: February 2011