

## **Material Safety Data Sheet**

10110

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	THIS MATERIAL IS TOXIC BY INHALATION. Highly toxic compound, do not ingest or inhale. Avoid all contact with this material. Flammable material; avoid heat and sources of ignition. Irritating to skin, eyes, and the respiratory system. Lachrymator. This compound is a possible skin sensitizer. Moisture sensitive material. Handle and store under nitrogen.	

Section I.	Chemical Product and Company id	entification	
Chemical Name	Isocyanic Acid Isoprop	yl Ester	
Catalog Number	10110	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Propane, 2-isocyanato- (9 CI)		Portland OR 1-800-423-8616
Chemical Formula	(CH <sub>3</sub> ) <sub>2</sub> CHNCO		
CAS Number	1795-48-8	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II.	Composition a	nd Informat	tion on Ing	redients		
Chemica	ıl Name	CAS Number	Percent (%)	TLV/PEL		Toxicology Data
Isocyanic Acid	Isopropyl Ester	1795-48-8	Min. 98.0 (GC)	Not available.	Not availa	able.
Section III.	Hazards Identi	azards Identification				
Acute Health Effects	or death. Irritating to eyes ar eye is characterize or, occasionally, bl Skin contact may protection. A OSH	nd skin on contact. ed by redness, wat listering. result in sensitizat IA/MSHA approved	Inhalation cause ering, and itching ion. Always cov d dust and vapor	ontact with this material. es irritation of the lungs a J. Skin inflammation is cl er all exposed skin with respirator is required whe ear proper protective equi	nd respiratory sys naracterized by itc an impermeable I n working with thi	tem. Inflammation of the hing, scaling, reddening, ayer and use proper eye s material.
Chronic Health Effects	MUTAGENIC EFFE TERATOGENIC EF DEVELOPMENTAI Repeated exposur	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.				
Section IV.	First Aid Measu	ires				
Eye Contact		Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.				
Skin Contact		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.				
Inhalation		If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.				
Ingestion	Loosen tight cloth resuscitation. Exa	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.				
Section V.	Fire and Explos	sion Data				
Flammability	Flammable.		А	uto-Ignition N	ot available.	
Flash Points	-2℃ (28.4°F).		Flar	nmable Limits N	lot available.	
Combustion Products	These products are	e toxic carbon oxid	es (CO, CO <sub>2</sub> ), nit	rogen oxides (NO, NO2). in a fire. Do not inhale.		
		onio ogarnao gao n	lay be produced	in a me. Do not innaic.		

Emergency phone number (800) 424-9300

<i>I</i> 0110	Iso	cyanic Acid Isopropyl E	Ester Page 2
Explosion Hazards		presence of mechanical impact: Not av presence of static discharge: Not available	
Fire Fighting Media and Instructions	Flammable liquid. DO NOT USE WATER. SMALL FIRE: Use DRY chemical p LARGE FIRE: Use alcohol foam, c Consult with local fire authorities be		operations.
Section VI.	Accidental Release Meas	Sures	
Spill Cleanup Instructions	Possible sensitizing material. Mois Keep away from heat. Mechanica non-combustible material. DO No	ture sensitive material. Handle and stor al exhaust required. Stop leak if witho OT get water inside container. DO NC sewers, basements or confined areas	erial. Irritating material. Lachrymatory material. re under nitrogen. ut risk. Absorb with DRY earth, sand or other DT touch spilled material. Use water spray to ; dike if needed. Consult federal, state, and/or
Section VII.	Handling and Storage		
Handling and Storage Information	POSSIBLE SENSITIZER. MOISTL away from heat. Mechanical exh gas/fumes/ vapor/spray. Wear sui container or the label. Treat sympt	JRE SENSITIVE. HANDLE AND STOR naust required. Avoid excessive heat table protective clothing. If ingested, s	AMMABLE. IRRITANT. LACHRYMATOR. E UNDER NITROGEN. Keep locked up. Keep t and light. DO NOT ingest. Do not breathe seek medical advice immediately and show the , acids, alkalis (bases), moisture.
Section VIII.	Exposure Controls/Perso	onal Protection	
Engineering Controls			airborne concentrations of vapors below their nower is proximal to the work-station location.
Personal Protection			OSH approved respirator must be used to avoid ient; consult a specialist BEFORE handling this
Exposure Limits	Not available.		
Section IX.	Physical and Chemical P	roperties	
Physical state @ 20°C	Liquid. (Colorless.)	Solubility	Immiscible in water.
Specific Gravity	0.87 (water=1)		
Molecular Weight	85.10	Partition Coefficient	Not available.
Boiling Point	74 to 75℃ (165.2 to 167℉)	Vapor Pressure	Not available.
Melting Point	Not available.	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Strong.
Viscosity	Not available.	Taste	Not available.
Section X.	Stability and Reactivity D	Data	
Stability	This material is stable if stored und	er proper conditions. (See Section VII f	or instructions)
Conditions of Instability	Moisture sensitive. Avoid excessiv	Moisture sensitive. Avoid excessive heat and light.	
Incompatibilities	Reactive with strong oxidizing ager	nts, strong acids, strong alkalis (bases),	water, heat, alcohols, amines.
Section XI.	Toxicological Informatio	n	
RTECS Number	NQ9230000		
Routes of Exposure	Eye Contact. Ingestion. Inhalation		
Toxicity Data	Not available.		
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not a MUTAGENIC EFFECTS : Not avail TERATOGENIC EFFECTS : Not av DEVELOPMENTAL TOXICITY: Not Repeated exposure to an highly to many human organs.	able. /ailable. available.	ioration of health by an accumulation in one or
Continued on	Next Page	Emergency phone nur	nber (800) 424-9300

<i>I</i> 0110	Isocyanic Acid Isopropyl Ester Page 3
Acute Toxic Effects	<ul> <li>Highly toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death.</li> <li>Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</li> <li>Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material.</li> <li>Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.</li> </ul>
Section XII.	Ecological Information
Ecotoxicity	Not available.
Environmental Fate	Not available.
Section XIII.	Disposal Considerations
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe al federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	Forbidden to ship by Air CLASS 6.1: Toxic material. CLASS 3: Flammable liquid.
PIN Number	UN2483
Proper Shipping Name	Isopropyl isocyanate
Packing Group (PG)	I (DOT: Zone A)
DOT Pictograms	RELEASE RELEAS

Section XV. Of	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This compound is <b>ON</b> the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8 °C (100 °F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). On NDSL.
EINECS Number (EEC)	217-276-5
EEC Risk Statements	R10- Flammable. R18- In use, may form flammable/explosive vapor-air mixture. R24/25- Toxic in contact with skin and if swallowed. R26- Very toxic by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitization by inhalation and skin contact.
Japanese Regulatory Data	Not available.

## Section XVI. Other Information

Version 1.0

Validated on 7/13/2006. Printed 7/13/2006.

## Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential harding procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

Printed 7/13/2006.