



Material Safety Data Sheet

HAZARD WARNING	GS RISK PHRASES	RISK PHRASES		
	with this material. Corrosive to eyes and skin on contact.	Highly toxic compound, do not ingest or inhale. Avoid all contact with this material. Corrosive to eyes and skin on contact. Combustible material; avoid heat and sources of ignition. Lachrymator. Moisture sensitive material. May develop pressure. Store under argon.		
Section I. (Chemical Product and Company Identification	ation		
Chemical Name	3-Chloropropionyl Chloride	ride		
Catalog Number	C0654	Supplier	TCI America 9211 N. Harborgate St.	
Synonym	Propanoyl chloride, 3-chloro- (CA INDEX NAME)		Portland OR	

Chemical Formula CAS Number $C_{3}H_{4}Cl_{2}O$

625-36-5

	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)
NAME)		Portland OR 1-800-423-8616
		9211 N. Harborgate St.

Section II.	Composition and Information on Ingredients					
Chemical Name		CAS Number	Percent (%)	TLV/PE	EL	Toxicology Data
3-Chloropropionyl Chloride		625-36-5	Min. 98.0 (T)	Not available.		Not available.
Section III.	Hazards Identi	lazards Identification				
Acute Health Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.					
Chronic Health Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. 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	ıres				
Eye Contact	Check for and rem minutes. Get medi	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	DO NOT INDUCE VOMITING. 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	Combustible.		А	uto-Ignition	460 <i>°</i> C (8	60 °F)
Flash Points	64℃ (147.2°F)		Flar	nmable Limits	LOWER	8.8% UPPER: 20.2%
Combustion Products	These products are WARNING: Highly			ogenated compound nbustion.	S.	
Fire Hazards	Not available.					
Explosion Hazards				nical impact: Not ava scharge: Not availab		

Emergency phone number (800) 424-9300

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Fire Fighting Media and Instructions	LARGE FIRE: Use water spray,	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.		
Section VI.	Accidental Release Me	asures		
Spill Cleanup Instructions	Moisture sensitive material. Keep away from heat. Mechar non-combustible material. DO N divert vapor drift. Use water spra	This material is toxic by inhalataion. Highly toxic material. Corrosive material. Combustible material. Lachrymatory material.		
Section VII.	Handling and Storage			
Handling and Storage Information	TOXIC BY INHALATION. HIGH SENSITIVE. MAY DEVELOP PR Keep away from heat. Mechan gas/fumes/ vapor/spray. Never a immediately and show the contai	ESSURE. STORE UNDER ARGON. REFR ical exhaust required. Avoid excessive he		
Section VIII.	Exposure Controls/Per			
Engineering Controls	Provide exhaust ventilation or oth	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.		
Personal Protection			SH approved respirator must be used to avoid cient; consult a specialist BEFORE handling this	
Exposure Limits	Not available.			
Section IX.	Physical and Chemical	Properties		
Physical state @ 20°C	Liquid. (Clear, colorless.)	Solubility	Not available.	
Specific Gravity	1.32 (water=1)			
Molecular Weight	126.97	Partition Coefficient	Not available.	
Boiling Point	143 ℃ (289.4 °F)	Vapor Pressure	7.5 mmHg (@ 20℃)	
Melting Point	-32°C (-25.6°F)	Vapor Density	Not available.	
Refractive Index	1.46	Volatility	Not available.	
Critical Temperature	Not available.	Odor	Stench.	
Viscosity	Not available.	Taste	Not available.	
Section X.	Stability and Reactivity	/ Data		
Stability		nder proper conditions. (See Section VII for	instructions)	
Conditions of Instability	Avoid excessive heat and light. R	leacts violently with water.		
Incompatibilities	Reactive with oxidizing agents, a	Ikalis (bases), active metals, alcohols, moisti	ure.	
Section XI.	Toxicological Informat	tion		
RTECS Number	UC3934000			
Routes of Exposure	Eye Contact. Ingestion. Inhalation	Eye Contact. Ingestion. Inhalation. Skin contact.		
Toxicity Data	Not available.			
Chronic Toxic Effects	prolonged exposure to spray mis	vailable. t available. Jot available. with spray mist may produce chronic eye ir st may produce respiratory tract irritation le	rritation and severe skin irritation. Repeated or ading to frequent attacks of bronchial infection tion of health by an accumulation in one or many	
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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 all federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	DOT CLASS 6.1: Toxic material DOT CLASS 8: Corrosive material
PIN Number	UN3390
Proper Shipping Name	Toxic by inhalation liquid, corrosive, n.o.s.
Packing Group (PG)	ZONE B
DOT Pictograms	POISON COMMENT
Section XV.	Other Regulatory Information and Pictograms
TSCA Chemical Invento	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.

(EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS B-3: Combustible liquid with a flash point between 37.8℃ (100°F) and 93.3℃ (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid. On NDSL.
EINECS Number (EEC)	210-890-4
EEC Risk Statements	R14- Reacts violently with water. R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed. R34- Causes burns.
Japanese Regulatory Data	ENCS No. 2-2646

Section XVI. Other Information

Version 1.0 Validated on 3/16/2011. Printed 10/28/2011.

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 potential hazards and who have been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling 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 10/28/2011.