



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	This compound may be harmful or irritating by eye or skin contact inhalation or ingestion.	

Section I.	Chemical Product and Company Ide	entification		
Chemical Name	4-Methyl-2-pyrrolecarboxylic Acid Ethyl Ester			
Catalog Number	M1145	Supplier	TCI America 9211 N. Harborgate St.	
Synonym	Ethyl 4-methyl-2-pyrrolecarboxylate		Portland OR 1-800-423-8616	
Chemical Formula	$C_8H_{11}NO_2$			
CAS Number	40611-85-6	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)	

Section II. Composition and Information on Ingredients					
Chemical Name		CAS Number	Percent (%)	TLV/PEL	Toxicology Data
4-Methyl-2-pyrrolecarboxylic Acid Ethyl Ester		40611-85-6		Not available.	Not available.

Section III.	Hazards Identification		
Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.		
Chronic Health Effect	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. Toxicity to the reproductive system: Not available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.		

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.
Ingestion	Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek medical attention. Treat symptomatically and supportively.

Flammability	Combustible.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon of	oxides (CO, CO ₂), nitrogen oxides (NO, N	NO ₂).
Fire Hazards	No specific information is available regarding the flammability of this compound in the presence of various materials.		
F1: III-		n presence of mechanical impact: Not a	
Explosion Hazards	Risks of explosion of the product in No additional information is availal	n presence of static discharge: Not available regarding the risks of explosion.	able.

Section VI.

Spill Cleanup Instructions

In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII.

Handling and Storage

Accidental Release Measures

Handling and Storage Information Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product.

Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



Exposure Limits

Not available.

Section IX. Pl	hysical and Chemical	Properties		
Physical state @ 20°C	Solid. (Crystals.)	Solubility	Not available.	
Specific Gravity	Not available.			
Molecular Weight	153.18	Partition Coefficient	Not available.	
Boiling Point	Not available.	Vapor Pressure	Not available.	
Melting Point	43°C (109.4°F)	Vapor Density	Not available.	
Refractive Index	Not available.	Volatility	Not available.	
Critical Temperature		Odor	Not available.	
Viscosity	Not available.	Taste	Not available.	

Section X. Stability and Reactivity Data

Stability

This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability

Avoid excessive heat and light.

Incompatibilities

Slightly reactive to reactive with oxidizing agents.

Section XI. Toxicological Information

RTECS Number

Not available.

Routes of Exposure

Ingestion. Inhalation. Eye contact. Skin contact.

Toxicity Data

Not available.

No additional remark.

Chronic Toxic Effects

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Toxicity to the reproductive system: Not available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Acute Toxic Effects No s

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Emergency phone number (800) 424-9300

M1145

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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 or 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 this substance.

Section XIV. Transport Information

DOT Classification

Not a DOT controlled material (United States).

PIN Number

NONE

Proper Shipping Name

NONE

Packing Group (PG)

NONE

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

(EPA)

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40

CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically

qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be

supplied on an MSDS sheet.

WHMIS Classification

(Canada)

Not controlled under WHMIS (Canada).

EINECS Number (EEC)

Not available.

EEC Risk Statements

Not controlled under DSCL (Europe).

Japanese Regulatory Data

Not available.

Section XVI. Other Information

Version 1.0

Validated on 3/11/1997.

Printed 3/9/2005.

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 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.

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