



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Combustible material; avoid heat and sources of ignition.	

Section I.	Chemical Product and Company Identifica	ation	
Chemical Name	2,4,4-Trimethylcyclopentanoi	ne	
Catalog Number	T1720	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Cyclopentanone, 2,4,4-trimethyl- (CA INDEX NAME)		Portland OR 1-800-423-8616
Chemical Formula	$C_8H_{14}O$		
CAS Number	4694-12-6	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients					
Chemical Name		CAS Number	Percent (%)	TLV/PEL	Toxicology Data
2,4,4-Trimethylcyclopentanone		4694-12-6	Not available.	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 Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. 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. 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. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
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	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Losen 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 Explosion Data	a		
Flammability	Combustible.	Auto-Ignition	Not available.	
Flash Points	43°C (109.4°F).	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon of	oxides (CO, CO ₂).		
Fire Hazards	Not available.			
Explosion Hazards		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions		, water spray or fog. Cool containing ve	essels with water jet in order to prevent pressure attempting large scale fire-fighting operations.	

T1720 2,4,4-Trimethylcyclopentanone Page 2

Section VI. Accidental Release Measures

Spill Cleanup Instructions

Keep away from heat. Mechanical exhaust required. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Consult federal, state, and/or local authorities for assistance on disposal

Section VII. Handling and Storage

Handling and Storage Information

COMBUSTIBLE. Keep away from heat. Mechanical exhaust required. Avoid excessive heat and light. Do not breathe

gas/fumes/ vapor/spray. Always store away from incompatible compounds such as oxidizing agents

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

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

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.



Exposure Limits

Not available

Section IX. Physical and Chemical Properties				
Physical state @ 20°C	Liquid. (Light yellow clear.)	Solubility	Not available.	
Specific Gravity	0.88 (water=1)			
Molecular Weight	126.2	Partition Coefficient	Not available.	
Boiling Point	161℃ (321.8°F)	Vapor Pressure	Not available.	
Melting Point	Not available.	Vapor Density	Not available.	
Refractive Index	1.4290 - 1.4320	Volatility	Not available.	
Critical Temperature	Not available.	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 Reactive with oxidizing agents.

Section XI. Toxicological Information

RTECS Number

Not available.

Routes of Exposure

Eve Contact. Ingestion. Inhalation.

Toxicity Data

Not available.

Chronic Toxic Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS: Not available **DEVELOPMENTAL TOXICITY: Not available**

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Acute Toxic Effects

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Section XII. Ecological Information

Ecotoxicity

Not available.

Environmental Fate

Not available.

T1720 2,4,4-Trimethylcyclopentanone Page 3 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.

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Section XIV.	Transport Information
DOT Classification	DOT Class 3: Flammable liquid
PIN Number	UN1224
Proper Shipping Name	Ketones, liquid, n.o.s.
Packing Group (PG)	ш
DOT Pictograms	

Section XV.	Other Regulatory Information and Pictograms
TSCA Chemical Inventory (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). On NDSL
EINECS Number (EEC)	225-155-3
EEC Risk Statements	Not available.
Japanese Regulatory Data	Not available.

Section XVI. Other Information

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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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