



# Safety Data Sheet

Version 8.1  
Revision Date: 10/01/2024

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **2-Chloro-2,4,4 trimethylpentane**  
Product number: TMPCI  
Product use: For laboratory research purposes.  
Supplier / Manufacturer: Polymer Source, Inc.  
Address: 124 Avro street, Dorval (Montreal), Quebec H9P 2X8, Canada  
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## 2. HAZARDS IDENTIFICATION

Emergency overview: GHS classification: Acute toxicity – Dermal (Category 4);  
Acute toxicity – Inhalation (Category 4);  
Specific Target Organ Toxicity -- Single Exposure  
(Respiratory Tract Irritation) (Category 3);  
Acute Toxicity -- Oral (Category 4);  
Skin Corrosion/Irritation – (Category 2);  
Serious eye damage/Eye irritation (Category 2);

Globally Harmonized System (GHS) Label elements, including precautionary statements:

Pictogram:



Signal word:

Warning

Hazard statements:

H312. Harmful in contact with skin.  
H332. Harmful if inhaled.  
H335. May cause respiratory irritation.  
H302. Harmful if swallowed.  
H315. Causes skin irritation.  
H319. Causes serious eye irritation.

Precautionary statements:

P271. Use only outdoors or in a well-ventilated area.  
P261. Avoid breathing dust, fume, gas, mist, vapours,  
spray.  
P264. Wash skin thoroughly after handling.  
P270. Do not eat, drink or smoke when using this  
product.

- P280. Wear protective gloves, eye protection, face protection.
- P305 + P351 + P338. *IF IN EYES*: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313. *If eye irritation persists*:  
Get medical advice/ attention.
- P301 + P312. *IF SWALLOWED*: Rinse mouth.  
Call a Poison Center/Doctor if you feel unwell.
- P302 + P352. *IF ON SKIN*: Wash with plenty of water.
- P304 + P340. *IF INHALED*: Remove person to fresh air and keep comfortable for breathing. Call a Poison Center / doctor if you feel unwell.
- P330. Rinse mouth.
- P332 + P313. *If skin irritation occurs*:  
Get medical advice / attention.
- P362 + P364. Take off contaminated clothing and wash it before reuse.
- P405. Store locked up.
- P403 + P233. Store in a well-ventilated place.  
Keep container tightly closed.
- P501. Dispose of contents/ container to an approved waste disposal plant.

Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Skin:	Harmful if absorbed through skin. Causes skin irritation.
	Eyes:	Harmful if contact with eyes occurs. Causes serious eye damage
	Ingestion:	May be harmful if swallowed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Substance:	2-Chloro-2,4,4-trimethylpentane
Formula:	C <sub>8</sub> H <sub>17</sub> Cl
Molecular weight:	148.7 g/mol
Concentration:	≤ 100 %
CAS registry number:	6111-88-2

### 4. FIRST AID MEASURES

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General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
In case of skin contact:	Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

In case of eye contact: Wash out immediately with fresh running water.  
 Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  
 Seek medical attention without delay; if pain persists or recurs seek medical attention.  
 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.  
 Consult a physician.

## 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media: There is no restriction on the type of extinguisher which may be used.

Special protective equipment for firefighters: Alert Fire Brigade and tell them location and nature of hazard.  
 Wear breathing apparatus plus protective gloves in the event of a fire.  
 Prevent, by any means available, spillage from entering drains or water courses.  
 Use fire fighting procedures suitable for surrounding area.  
 DO NOT approach containers suspected to be hot.  
 Cool fire exposed containers with water spray from a protected location.  
 If safe to do so, remove containers from path of fire.  
 Equipment should be thoroughly decontaminated after use.

Hazardous combustion products: May emit corrosive fumes

## 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions: See section 8

Environmental precautions: See section 12

Methods and materials for containment and cleaning up: Minor Spills  
 Clean up all spills immediately.  
 Avoid breathing vapours and contact with skin and eyes.  
 Control personal contact with the substance, by using protective equipment.  
 Contain and absorb spill with sand, earth, inert material or vermiculite.  
 Wipe up.  
 Place in a suitable, labelled container for waste disposal.

Major Spills  
 Clear area of personnel and move upwind.  
 Alert Fire Brigade and tell them location and nature of hazard.  
 Wear breathing apparatus plus protective gloves.  
 Prevent, by any means available, spillage from entering drains or water course.  
 Stop leak if safe to do so.  
 Contain spill with sand, earth or vermiculite.  
 Collect recoverable product into labelled containers for recycling.

Neutralise/decontaminate residue (see Section 13 for specific agent).

Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

If contamination of drains or waterways occurs, advise emergency services.

## 7. HANDLING AND STORAGE

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Precautions for safe handling:	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Conditions for safe storage:	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Use mechanical exhaust or laboratory fumehood to avoid exposure. Wash hands before breaks and at the end of workday.
Personal protective equipment:	
• Respiratory protection:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
• Eye protection:	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
• Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

- Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Control of environmental exposure: Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	Form:	liquid
	Color:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	no data available
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapor pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapor density (Air = 1.0):	no data available
	Odor:	no data available
	Odor threshold:	no data available
	Evaporation rate:	no data available

## 10. STABILITY AND REACTIVITY

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Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	no data available
Conditions to avoid:	no data available
Materials to avoid:	See section 7.
Hazardous decomposition products:	See section 5.

## 11. TOXICOLOGICAL INFORMATION

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Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	

Serious eye damage/eye irritation:	no data available	
Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	no data available	
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	no data available	
Teratogenicity:	no data available	
Specific target organ toxicity:	Single exposure (GHS):	no data available
	Repeated exposure (GHS):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Skin:	Harmful if absorbed through skin. Causes skin irritation.
	Eyes:	Harmful if contact with eyes occurs. Causes serious eye irritation.
	Ingestion:	Harmful if swallowed.
Signs and symptoms of exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Synergistic effects:	no data available	
Additional information:	RTECS:	not available

## **12. ECOLOGICAL INFORMATION**

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Toxicity:	no data available
Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	no data available

## **13. DISPOSAL CONSIDERATIONS**

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Product/Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction; Reuse; Recycling; Disposal (if all else fails).
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This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Where in doubt contact the responsible authority.

Recycle wherever possible.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

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#### 14. TRANSPORT INFORMATION

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DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

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#### 15. REGULATORY INFORMATION

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This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

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#### 16. OTHER INFORMATION

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Date of the latest revision: 10 January 2024

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.polymersource.ca](http://www.polymersource.ca) for additional terms and conditions of sale.