

Revision number: 1 Revision date: 07/06/2018

## 1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

## 2. HAZARD(S) IDENTIFICATION

# SAFETY DATA SHEET

**TCI AMERICA** 

1,1,4-Trimethylcyclohexane T0823

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Flammable Liquids [Category 3]
Signal word:	Warning!
Hazard Statement(s):	Flammable liquid and vapor
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection.
[Response]	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, dry sand or foam to extinguish.
[Storage]	Store in a well-ventilated place. Keep cool.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Substance 1,1,4-Trimethylcyclohexane >98.0%(GC) 7094-27-1 126.24 C9H18

4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical		
Skin contact:	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Eye contact:			
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.		
Symptoms/effects:			
Acute:	No data available		
Delayed:	No data available		
Indication of any immediate medical atte	ention:		
Not available. Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, carbon dioxide.		
Unsuitable extinguishing media:	Water (It may scatter and spread fire.)		
Hazardous combustion products:	These products include: Carbon oxides		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from		
equipment and emergency procedures:	and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be		
Environmental precautions:	controlled around the leakage area by roping off, etc. Prevent product from entering drains.		
Methods and materials for containment	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In		
and cleaning up:	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.		
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use		
2	spark-proof tools and explosion-proof equipment.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent		
recautions for sale handling.	generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take		
	measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands		
	and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.		
	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including a Storage conditions:	<b>ny incompatibilities</b> Keep container tightly closed. Store in a cool, dark and well-ventilated place.		
-	Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION		
Annualita angina siya saytala			
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.		
Personal protective equipment			
Respiratory protection:	Vapor respirator. Follow local and national regulations.		

Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

## **TCI AMERICA**

Carbon dioxide, Carbon monoxide

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorles No data available No data available No data available	35		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available 135°C (275°F) No data available 0.78 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. No data available No data available	
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available	
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available	
Solubility(ies):		opper.	NO Gala available	
[Water]	No data available			
[Other solvents]	No data available			
10. STABILITY AND REACTIVITY				
Reactivity: Chemical stability: Possibility of hazardous reaction Conditions to avoid: Incompatible materials:	No data available Stable under proper condit No special reactivity has be Spark, Open flame, Static Oxidizing agents	een reported.		

No data available

OSHA:

No data available

11. TOXICOLOGICAL INFORMATION

Hazardous decomposition products:

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

**Reproductive toxicity:** No data available

Target organ(s):

No data available

NTP:

## **TCI AMERICA**

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM <sup>3</sup> /mol):	No data available
13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. 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. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	

<u>DOT (US)</u> UN number: UN3295	<b>Proper Shipping Name:</b> Hydrocarbons, liquid, n.o.s	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III
IATA UN number: UN3295	<b>Proper Shipping Name:</b> Hydrocarbons, liquid, n.o.s	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III
IMDG UN UN3295 numb er:	<b>Proper Shipping Name:</b> Hydrocarbons, liquid, n.o.s	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III
EmS number:	F-E, S-D		

## 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

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 a SDS sheet.

#### **US Federal Regulations**

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

State Regulations	
State Right-to-Know	
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

### Other Information

NFPA Rating: Health: 2 Flammability: 3 Instability: 0

### International Inventories

## 16. OTHER INFORMATION

## Revision date: 07/06/2018

#### **Revision number:** 1

TCI 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 affiliates or 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 SDS 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 SDS 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, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HMIS Classification:** 

Flammability:

2

3

0

Health:

Physical: