

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

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Skin Corrosion/Irritation [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 3] Aspiration Hazard [Category 1] Flammable Liquids [Category 2] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor Causes skin irritation May be fatal if swallowed and enters airways Very toxic to aquatic life Very toxic to aquatic life with long lasting effects May cause drowsiness or dizziness.

None.

2,2,4-Trimethylpentane

For laboratory research purposes.

Not for drug or household use.

T0481

### Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] 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. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. In case of fire: Use dry chemical, dry sand or foam to extinguish. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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]

# TCI AMERICA SAFETY DATA SHEET

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

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3. COMPOSITION/INFORMATION O	N INGREDIENTS		
Substance/mixture: Components:	Substance 2,2,4-Trimethylpentane		
Percent: CAS RN:	>99.0%(GC) 540-84-1		
CAS KN: Molecular Weight:	114.23		
Chemical Formula:	C8H18		
Synonyms:	Isooctane		
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. Call a POISON		
Skin contact:	CENTER or doctor/physician if you feel unwell. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.		
Eye contact:	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.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Cough. Dizziness. Redness. Drowsiness.		
Delayed:	May have effects on the respiratory tract.		
Indication of any immediate medical attended to available.	ention:		
Notes to physician: No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides 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 equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.		
Environmental precautions: Methods and materials for containment and cleaning up:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be		
Prevention of secondary hazards:	promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use 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 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.		
Conditions for safe storage, including a Storage conditions:	Avoid contact with skin, eyes and clothing. <b>ny incompatibilities</b> Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.		
Packaging material:	Store locked up. Store away from incompatible materials such as oxidizing agents. Comply with laws.		
. concerns material.			

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density:	No data available 99°C (210°F) No data available 0.69	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 3.93 No data available
Kinematic viscosity: Log Pow:	No data available No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	-9°C (16°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	418°C (784°F) 1.1% 6%
Solubility(ies): [Water] [Other solvents] Miscible: Soluble:	Insoluble Acetone, Heptane Ether, Benzene, Chloro		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide

# **11. TOXICOLOGICAL INFORMATION**

### RTECS Number: SA3320000

RIECS Number: SA3320000				
Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: dns-mus-orl 500 mg/kg	dns-rat-orl 500 mg/kg			
<b>Carcinogenicity:</b> No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Aspiration hazard: Target organ(s): May cause drowsiness or dizziness.	May be fatal if sw	allowed and enters airways.		
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	96h LC50:0.561 r No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	0 % (by BOD) , 3 % (by GC) 540 (conc. 10 ug/L) , 520 (conc. 1 ug/L)			
Log Pow: Soil adsorption (Koc):	No data available No data available			
Henry's Law (PaM ³/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: Other considerations:	Dispose of as unu	used product. Do not re-use e al, state and local regulations	mpty containers.	

### 14. TRANSPORT INFORMATION

DOT (US) UN number: UN1262	Proper Shipping Name: Octanes	<b>Class or Division:</b> 3 Flammable liquid	Packing Group:
IATA_ UN number: UN1262	Proper Shipping Name: Octanes	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
IMDG UN UN1262 numb er:	Proper Shipping Name: Octanes	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
EmS number:	F-E, S-E		

### 15. REGULATORY INFORMATION

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

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regul	lations_		
CERCLA Hazardo	ous substance and	<b>Reportable Quantity:</b>	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations			
State Right-to-Kn			
Massachuset		Listed	
New Jersey		Listed	
Pennsylvania		Listed	
California Propos		Not Listed	
California Fropos	SILION 05.	NOL LISIEU	
Other Information	า		
NFPA Rating:	_		HMIS Classification:
Health:	2		Health:
Flammability:	3		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		208-759-1	

# 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.

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