

Revision number: 2 Revision date: 04/08/2019

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 2] Aquatic Hazard (Long-Term) [Category 2]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor Causes skin irritation May be fatal if swallowed and enters airways Toxic to aquatic life Toxic to aquatic life with long lasting effects May cause drowsiness or dizziness.

None.

2,2-Dimethylbutane

For laboratory research purposes.

Not for drug or household use.

D0689

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] 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

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly

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:

3]

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 ON INGREDIENTS Substance/mixture: Substance 2,2-Dimethylbutane Components: Percent: >98.0%(GC) CAS RN: 75-83-2 Molecular Weight: 86.18 **Chemical Formula:** C6H14 Synonyms: Neohexane 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 CENTER or doctor/physician if you feel unwell. Skin contact: 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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact: 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: No data available Indication of any immediate medical attention: Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Drv chemical, foam, carbon dioxide, Unsuitable extinguishing media: Water (It may scatter and spread fire.) These products include: Carbon oxides Hazardous combustion products: 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 MEASURES Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from Personal precautions, protective equipment and emergency procedures: 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:** Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. 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 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. Avoid contact with skin, eyes and clothing.					
Conditions for safe storage, including any incompatibilities						
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place.					
-	Store locked up.					
	Store away from incompatible materials such as oxidizing agents.					
Packaging material:	Comply with laws.					

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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 - Almost colorless Slight Gasoline-like No data available No data available	5	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	-100°C (-148°F) 49°C (120°F) No data available 0.65 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 3.0 No data available No data available
Flash point: Flammability(solid, gas):	-48°C(-54°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	405°C (761°F) 1.2% 7%
Solubility(ies): [Water] [Other solvents] Very soluble: Soluble:	Insoluble (23.8mg/L, 25°C) Carbon tetrachloride, Petrole Ether, Alcohols, Benzene, A		

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

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	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Aspiration hazard: Target organ(s): May cause drowsiness or dizziness.	May be fatal if swa	allowed and enters airways.		
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:	3.82			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to proces	s if possible. It is the genera	tor's responsibility to	comply with Federal, State and
	Local rules and re and burn in a cher intended to provid	gulations. You may be able mical incinerator equipped w	to dissolve or mix ma rith an afterburner and splace these laws, no	terial with a combustible solvent d scrubber system. This section is r 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: UN1208	Proper Shipping Na Hexanes	ne:	Class or Division: 3 Flammable liquid	Packing Group: II
IATA UN number: UN1208	Proper Shipping Na Hexanes	1e:	Class or Division: 3 Flammable liquid	Packing Group: II
IMDG UN UN1208 numb er:	Proper Shipping Na Hexanes	ne:	Class or Division: 3 Flammable liquid	Packing Group: II
EmS number: Reportable Quanti	tiy:	F-E, S-D 5000 Pounds (2270) Kilograms)	

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu		and Danastable Osentitus		
SARA 313:	ous substance	and Reportable Quantity: Not Listed		
SARA 313.		Not Listed		
State Regulation				
State Right-to-Kr				
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Proposition 65:		Not Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification:	
Health:	2		Health:	
Flammability:	3		Flammability:	
Instability:	0		Physical:	
International Inve	entories			
Canada: DSL EC-No:		On DSL 200-906-8		

16. OTHER INFORMATION

Revision date: 04/08/2019

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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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