

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] Eye Damage/Irritation [Category 2A] 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 Causes serious eye 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 respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

TCI AMERICA SAFETY DATA SHEET

n-Octane [Standard Material for GC]

For laboratory research purposes.

Not for drug or household use.

S0280

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

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. If in eyes: 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 or attention. 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.). **TCI AMERICA**

Hazards not otherwise classified:	None.
[HNOC]	

3. COMPOSITION/INFORMATION C	IN INGREDIENTS		
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula:	Substance n-Octane [Standard Material for GC] >99.5%(GC) 111-65-9 114.23 C ₈ H ₁₈		
4. FIRST-AID MEASURES			
Description of first aid measures Inhalation: Skin contact:	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. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If		
Eye contact: Ingestion:	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. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects: Acute: Delayed:	Cough. Dizziness. Redness. Drowsiness. May have effects on the respiratory tract.		
Indication of any immediate medical att Not available. 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 MEASURES			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	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. 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 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: Conditions for safe storage, including a	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.		
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.		

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	
ACGIH TLV(TWA):	300 ppm
ACGIH TLV(STEL):	375 ppm
OSHA PEL(TWA):	500 ppm
JSOH OELs(TWA):	300 ppm
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 Gasoline-like No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	-57°C (-71°F) 125°C (257°F) No data available 0.70 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	No data available No data available. 3.94 No data available No data available
Flash point: Flammability(solid, gas):	14°C(57°F) No data available	Acetate=1): Autoignition temperature: Flammability or explosive limits: Lower: Upper:	220°C (428°F) 1.0% 6.5%
Solubility(ies): [Water] [Other solvents] Miscible: Soluble: Slightly soluble:	Insoluble (0.66mg/L, 25°C) Benzene, Petroleum ether Ether Alcohols		

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 **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: RG8400000

Acute Toxicity: ihl-mus LCLo:80000 mg/m³/2H ivn-mus LDLo:428 mg/kg		ihl-rat LC50:118 g	/m³/4H	
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 respiratory irritation. May cause drowsiness or dizziness.	May be fatal if sw	allowed and enters airways.		
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	48h EC50:0.18 m	g/L (Oryzias latipes) ŋg/L (Daphnia magna) ŋg/L (Selenastrum capricornutu	ım)	
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available 1900			
Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	5.18 16000 3.2 x 10⁵			
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 unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.			

14. TRANSPORT INFORMATION

DOT (US) UN number: UN1262	Proper Shipping Name: Octanes	Class or Division: 3 Flammable liquid	Packing Group:	
IATA UN number: UN1262	Proper Shipping Name: Octanes	Class or Division: 3 Flammable liquid	Packing Group: II	
IMDG UN UN1262 numb er:	Proper Shipping Name: Octanes	Class or Division: 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 Regu	lations		
CERCLA Hazardo	ous substance and Rep	oortable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
Ctata Damulation	_		
State Regulation			
State Right-to-Kn			
Massachuse	tts	Listed	
New Jersey		Listed	
Pennsylvania	3	Listed	
California Propos	sition 65:	Not Listed	
Other Information	n		
NFPA Rating:	<u> </u>		HMIS Classification:
Health:	2		Health:
	—		
Flammability:	3		Flammability:
Instability:	0		Physical:
International Inve			
	ntorios		
	entories_		
Canada: DSL	entories_	On DSL	
	entories_	On DSL 203-892-1	

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.

0 3 0