

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:

Signal word:

Danger!

None.

Combustible liquid Causes severe skin burns and eye damage

Eye Damage/Irritation [Category 1]

Flammable Liquids [Category 4] Skin Corrosion/Irritation [Category 1B]

Pictogram(s) or Symbol(s):

Hazard Statement(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Keep away from flames and hot surfaces. – No smoking. Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. In case of fire: Use dry chemical, dry sand or foam to extinguish. Store in a well-ventilated place. Keep cool. 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] 5-Norbornene-2-methylamine (mixture of isomers) N0907

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SAFETY DATA SHEET

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 **TCI AMERICA** 

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
5-Norbornene-2-methylamine (mixture of isomers)
>98.0%(GC)(T)
95-10-3
123.20
C8H13N
5-(Aminomethyl)bicyclo[2.2.1]hept-2-ene (mixture of isomers) , 5-(Aminomethyl)norbornene (mixture of
isomers), 5-Norbornene-2-methanamine (mixture of isomers)
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a
POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.Immediately call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Pain. Redness.
No data available
ention:
Dry chemical, foam, carbon dioxide.
Water (It may scatter and spread fire.)
Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume
These products include: Carbon oxides Nitrogen oxides
Closed containers may explode from heat of a fire.
Wear self-contained breathing apparatus if possible.
RES
Use personal protective equipment. 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 of etc.
Prevent product from entering drains.
Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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.
Ling dia prior preference drive a constitute draba and where exitable protective equipment. Descent
Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vanour or mist. Keep away from flames and hot surfaces. Take measures to prevent the
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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 - Slightly pale No data available No data available No data available No data available	e yellow	
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density: Kinematic viscosity:	0.96 No data available	Dynamic Viscosity:	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:	No data available
<b>y</b> (10, 10, <b>3</b> , 10,		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		

# **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. Open flame Oxidizing agents, Acids Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) 11. TOXICOLOGICAL INFORMATION

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
<b>Reproductive toxicity:</b> No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Footovicity				
Ecotoxicity: Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:		s if possible. It is the generator's		
				terial with a combustible solvent
				scrubber system. This section is does compliance in accordance
		e assistance but does not replace nsure regulatory compliance acc		•
				Parts 261. The product should not
		r the environment, drains, water		
Disposal of container:	Dispose of as unu	sed product. Do not re-use emp	ty containers.	

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2735	<b>Proper Shipping Name:</b> Amines, liquid, corrosive, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
IATA UN number: UN2735	<b>Proper Shipping Name:</b> Amines, liquid, corrosive, n.o.s	<b>Class or Division:</b> 8 Corrosive material	Packing Group: II
IMDG UN UN2735 numb er:	<b>Proper Shipping Name:</b> Amines, liquid, corrosive, n.o.s	<b>Class or Division:</b> 8 Corrosive material	Packing Group: II
EmS number:	F-E, S-B		

## 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: 0 Flammability: 0 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: Health: 0 Flammability: 0 Physical: 0

**TCI AMERICA**