

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

1. IDENTIFICATION

Product name: Product code:

[HNOC]

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

TCI AMERICA SAFETY DATA SHEET

Dimethyl 1,4-Cyclohexanedicarboxylate (cis- and trans- mixture) C1154

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 2B]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response]	Wash hands and face thoroughly after handling. 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.
Hazards not otherwise classified:	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Dimethyl 1,4-Cyclohexanedicarboxylate (cis- and trans- mixture)
Percent:	>98.0%(GC)
CAS RN:	94-60-0
Molecular Weight:	200.23
Chemical Formula:	C10H16O4
Synonyms:	1,4-Cyclohexanedicarboxylic Acid Dimethyl Ester (cis- and trans- mixture)

4. FIRST-AID MEASURES			
Departmention of 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		
duuton.	advice/attention if you feel unwell.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation		
Evo contact:	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:	Get medical advice/attention if you feel unwell. Rinse mouth.		
• • • • •			
Symptoms/effects: Acute:	Redness.		
Delayed:	No data available		
Dolayou			
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, water spray, carbon dioxide.		
Suitable extinguishing media:	Dry chemical, ioani, water spray, carbon dioxide.		
Hazardous combustion products:	These products include: Carbon oxides		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advise for firefighters	Wear self-contained breathing apparatus if possible.		
Advice for firefighters:	wear sen-contained breathing apparatus it possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures:	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 off,		
equipment and emergency procedures.	etc.		
Environmental precautions:	Prevent product from entering drains.		
	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large		
and cleaning up:	amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.		
7. HANDLING AND STORAGE			
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Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling.		
	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	ny incompatibilities		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed		
. PP. Spinto onginooning ooni old.	system or local exhaust as possible so that workers should not be exposed directly. Also install safety		
	shower and eye bath.		

Personal protective equipment	
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorle Sweet No data available No data available	955	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	13°C (Freezing point) (55°F) 263°C (505°F) No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 6.9 No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	388°C (730°F) 0.8% 5.6%
Solubility(ies): [Water] [Other solvents] Soluble:	Slightly soluble Ether, Alcohols, Many org	anic solvents	
10. STABILITY AND REACTI	VITY		
Reactivity: No data available Chemical stability: Stable under proper conditions. Possibility of hazardous reactions: No special reactivity has been reproving agents Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon dioxide, Carbon monoxide		been reported.	
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

Reproductive toxicity: No data available

Target organ(s):

No data available

12. ECOLOGICAL INFORMATION	
12. LOOLOGICAL 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 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:	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	
DOT (US)	Non-hazardous for transportation.
IATA_	Non-hazardous for transportation.
IMDG_	Non-hazardous for transportation.

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15. REGULATORY INFORMATION

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

<u>US Federal Regu</u> CERCLA Hazardo SARA 313: SARA 302:	lations ous substance and Rep	Not Listed Not Listed	
State Regulations	low		
Massachuset	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania		Not Listed	
California Propos	sition 65:	Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	n 2 1 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	entories_	On DSL 202-347-5	

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.