

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

## 1. IDENTIFICATION

Product name:

Product code:

Product use:

**Restrictions on use:** 

1,3-Bis(aminomethyl)cyclohexane (cis- and trans- mixture) B1005

TCI AMERICA

SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household 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:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Skin Corrosion/Irritation [Category 1A] Eye Damage/Irritation [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 2]	
Signal word:	Danger!	
Hazard Statement(s):	Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage	

May cause damage to organs: organs

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



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not breathe mist, vapors or spray. Do not eat, drink or smoke when using this product. 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. If exposed or concerned: Call a poison center or doctor. 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] None.

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International)

Environmental Health Safety and Security

**Responsible department:** 

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

TCI America

+1-503-286-7624

3. COMPOSITION/INFORMATION O	N INGREDIENTS
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:	Substance 1,3-Bis(aminomethyl)cyclohexane (cis- and trans- mixture) >98.0%(GC)(T) 2579-20-6 142.25 CsH18N2 1,3-Di(aminomethyl)cyclohexane (cis- and trans- mixture) , Hexahydro-m-xylylenediamine (cis- and trans- mixture)
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. 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.
Eye contact: Ingestion:	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.
Symptoms/effects: Acute: Delayed:	Pain. Redness. No data available
Indication of any immediate medical attention Not available. Notes to physician: No data available	ention:
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen 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 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, etc.
Environmental precautions: Methods and materials for containment and cleaning up:	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.
7. HANDLING AND STORAGE	
Precautions for safe handling: Conditions for safe storage, including an Storage conditions:	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 closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. <b>ny incompatibilities</b> Keep container tightly closed. Store in a cool and dark place. Store locked up.
Packaging material:	Store locked up. Store away from incompatible materials such as oxidizing agents. Comply with laws.

## 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 No data available No data available No data available No data available		
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:	0.94	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	113°C (235°F) No data available	Autoignition temperature: Flammability or explosive limits:	No data available
, , , , , , , , , , , , , , , , , , ,		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	Soluble		
[Other solvents]	No data available		

## 10. STABILITY AND REACTIVITY

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

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Acids Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) 11. TOXICOLOGICAL INFORMATION

## RTECS Number: GU7000000

Acute Toxicity: orl-rat LD50:880 mg/kg ipr-rat LDLo:25 mg/kg	skn-rbt LDLo:100 i	mg/kg
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): May cause damage to organs: orga	ins	
12. ECOLOGICAL INFORMATION	1	
Ecotoxicity:		
Fish:	No data available	
Crustacea:	No data available	
Algae:	No data available	
Persistence / degradability: Bioaccumulative potential(BCF):	0 % (by BOD) , 0 % (by TOC) , 6 % (by GC) No data available	
Mobility in soil		
Log Pow:	No data available	
Soil adsorption (Koc):	No data available	
Henry's Law (PaM <sup>3</sup> /mol):	No data available	
13. DISPOSAL CONSIDERATION		
Disposal of product:		or'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	
		lace these laws, nor does compliance in accordance
	with this section ensure regulatory compliance a	
		re listed in 40 CFR Parts 261. The product should not
	be allowed to enter the environment, drains, wat	
Disposal of container	Dispose of as unused product. Do not re-use en	noty containers.

Dispose of as unused product. Do not re-use empty containers.

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

Disposal of container: Other considerations: 14. TRANSPORT INFORMATION

DOT (US) UN number: UN2735	<b>Proper Shipping Name:</b> Polyamines, liquid, corrosive, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IATA UN number: UN2735	<b>Proper Shipping Name:</b> Polyamines, liquid, corrosive, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IMDG UN UN2735 numb er:	<b>Proper Shipping Name:</b> Polyamines, liquid, corrosive, n.o.s	Class or Division: 8 Corrosive material	Packing Group: I

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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.

US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	lations_ ous substance and Re	portable Quantity: Not Listed Not Listed	
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania	ow ts	Not Listed Not Listed Not Listed	
California Propos	sition 65:	Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	1 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	entories_	On DSL 219-941-5	

# 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.

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