

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:	Acute Toxicity - Inhalation [Category 2] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Sensitization - Respiratory [Category 1] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 2] Carcinogenicity [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category Aquatic Hazard (Acute) [Category 3] Aquatic Hazard (Long-Term) [Category 3]	
Signal word:	Danger!	
Hazard Statement(s):	Fatal if inhaled Causes skin irritation Causes serious eye irritation	

May cause an allergic skin reaction Suspected of causing genetic defects Suspected of causing cancer Harmful to aquatic life

Harmful to aquatic life with long lasting effects May cause damage to organs: Respiratory System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. 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. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Call a poison center or doctor.

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Tolylene-2,6-diisocyanate

T1153

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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

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None.

[Storage]	
[Disposal]	

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]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Tolylene-2,6-diisocyanate
Percent:	>98.0%(GC)
CAS RN:	91-08-7
Molecular Weight:	174.16
Chemical Formula:	C9H6N2O2
Synonyms:	2,6-Diisocyanatotoluene, 2-Methyl-1,3-phenylene Diisocyanate, 2-Methyl-m-phenylene Diisocyanate,
	Toluene-2,6-diisocyanate

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. Immediately call a POISON CENTER or doctor/physician.				
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.				
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth.				
Ingestion:					
Symptoms/effects:					
Acute:	Redness.				
Delayed:	May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic to humans.				
Indication of any immediate medical Not available.	attention:				
Notes to physician: No data available					
5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.				
Unsuitable extinguishing media	Solid streams of water				

Unsuitable extinguishing media:	Solid streams of water
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 MEASURES

Personal precautions, protective equipment and emergency procedures:	
Environmental precautions: Methods and materials for containment and cleaning up:	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.

7. HANDLING AND STORAGE

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent Precautions for safe handling: 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 all contact! Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a refrigerator. Storage conditions: Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Light-sensitive Moisture-sensitive Packaging material: Comply with laws. 8. EXPOSURE CONTROLS / PERSONAL PROTECTION **Exposure limits:** 0.001 ppm (skin) ACGIH TLV(TWA): 0.005 ppm (skin) ACGIH TLV(STEL): JSOH OELs(TWA): 0.005 ppm JSOH OELs(CL): 0.02 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 Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. **Respiratory protection:** Use respirators approved under appropriate government standards and follow local and national regulations. Hand protection: Impervious gloves. Safety goggles. A face-shield, if the situation requires. Eye protection:

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 - Very pale yellow Pungent No data available No data available	,	
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	103°C /0.8kPa (217°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	6
Relative density:	1.23	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:	127°C (261°F)	Autoignition temperature:	620°C (1148°F)
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
· · · · · · · · · · · · · · · · · · ·		Lower:	0.9%
		Upper:	9.5%
Solubility(ies):			
[Water]	No data available		
[Other solvents]			
Soluble:	Benzene, Acetone		
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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, Strong bases Carbon monoxide, carbon dioxide etc

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11. TOXICOLOGICAL INFORMATION

RTECS Number: CZ6310000

Acute Toxicity: orl-bwd LD50:100 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: mmo-sat 10 ug/plate (-S9) mtr-mus-fbr 20 mg/L/21D (-S9)		mmo-sat 300 ug	g/plate (+S9)	
Carcinogenicity: No data available				
IARC: Group 2B (Possibly carcino to humans) .	ogenic NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s): May cause damage to organs: Respin	ratory System			
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea:	No data available 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:		ss if possible. It is the genera	ator's responsibility to co	omply with Federal, State and
	Local rules and re and burn in a che intended to provid with this section e Identification and	egulations. You may be able emical incinerator equipped v de assistance but does not re ensure regulatory compliance	to dissolve or mix mate with an afterburner and s eplace these laws, nor of e according to the law. It are listed in 40 CFR Pa	rial with a combustible solvent scrubber system. This section is loes compliance in accordance

Disposal of container: Other considerations: be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. **TCI AMERICA**

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2078	Proper Shipping Nam Toluene diisocyanate	e:	Class or Division: 6.1 Toxic material.	Packing Group: II
IATA UN number: UN2078	Proper Shipping Nam Toluene diisocyanate	e:	Class or Division: 6.1 Toxic material.	Packing Group:
IMDG UN UN2078 numb er:	Proper Shipping Name Toluene diisocyanate	e:	Class or Division: 6.1 Toxic material.	Packing Group: II
EmS number: Reportable Quanti		F-A, S-A 00 Pounds (45.4 K	ilograms)	

15. REGULATORY INFORMATION

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

US Federal Regu				
	ous substance a	nd Reportable Quantity:		
SARA 313:		2.0100		
SARA 302:		Listed		
State Regulation	5			
State Right-to-Kn				
Massachuse		Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos		Not Listed		
Other Information	n			
NFPA Rating:	<u> </u>		HMIS Classification:	
Health:	4		Health:	
Flammability:	1		Flammability:	
Instability:	0		Physical:	(
International Inve	ntories			
Canada: DSL	sintones_	On DSL		
EC-No:		202-039-0		
LO-110.		202-009-0		
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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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