

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

1. IDENTIFICATION

Product name: Product code:

o-Tolidine T0253

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

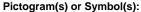
SAFETY DATA SHEET

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 - Oral [Category 4] Germ Cell Mutagenicity [Category 2] Carcinogenicity [Category 2] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]
Signal word:	Warning!
Hazard Statement(s):	Harmful if swallowed Suspected of causing genetic defects Suspected of causing cancer Toxic to aquatic life Toxic to aquatic life with long lasting effects





Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. 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: Call a poison center or doctor if you feel unwell. Rinse mouth. If exposed or concerned: Get medical advice or attention. Collect spillage.

Store locked up.

None.

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] Page 1 of 5

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

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. Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion:	Get medical advice/attention.Rinse mouth.
Symptoms/effects:	
Acute:	No data available
Delayed:	May cause heritable genetic damage in humans. Possibly carcinogenic to humans.

Indication of any immediate medical attention: Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Dry chemical, foam, water spray, 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: These products include: Carbon oxides Nitrogen oxides Other specific hazards: Closed containers may explode from heat of a fire. Advice for firefighters: Wear self-contained breathing apparatus if possible. 6. ACCIDENTAL RELEASE MEASURES Section of the specific hazards of the specific hazar

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	dispersion of dust. Wash hands and face thoroughly after handling.
	Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.
	Avoid all contact!
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store under inert gas. Store locked up.
	Store away from incompatible materials such as oxidizing agents.
	Light-sensitive Air-sensitive
Packaging material:	Comply with laws.

TCI AMERICA

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:	Dust 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:	Solid Crystal - Powder White - Greyish yellow No data available No data available No data available		
Melting point/freezing point:	129°C (264°F)	pH:	No data available
Boiling point/range:	300°C (572°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	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):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	526°C (979°F)
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents] Soluble:	Very slightly soluble (0.13 Ether, Alcohols	g/100mL, 25°C)	

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 Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: DD1225000

Acute Toxicity: orl-dog LDLo:600 mg/kg	ipr-mus LDLo:125 mg/kg			
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitizatior No data available				
Germ cell mutagenicity: dns-hmn-hla 1 umol/L mmo-sat 3 ug/plate (+S9)	cyt-mus-ipr 100 mg/kg			
Carcinogenicity: orl-rat TDLo:4500 mg/kg/27D-I imp-rat TDLo:5040 mg/kg/1Y-I	scu-rat TDLo:1650 mg/kg/33W-I			
IARC: Group 2B (Possibly to humans).	arcinogenic NTP: b (Reasonably anticipated to be OSHA: No data available carcinogens).			
Reproductive toxicity: No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMA	ON			
Ecotoxicity: Fish: Crustacea: Algae:	48h LC50:56 ppm (Oryzias latipes) 96h LC50:13 mg/L (Oryzias latipes) 48h EC50:4.5 mg/L (Daphnia magna) 72h EC50:2.0 mg/L (Selenastrum capricornutum)			
Persistence / degradability: Bioaccumulative potential(BCF) Mobility in soil	3 % (by BOD) , 6 % (by HPLC) 4.8 - 34 (conc. 200 ppb) , 10 - 83 (conc. 20 ppb)			
Log Pow: Soil adsorption (Koc): Henry's Law (PaM³/mol):	2.34 450 6.4 x 10 ⁻⁶			
13. DISPOSAL CONSIDERAT				
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: UN3077	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
IATA_ UN number: UN3077	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group:
IMDG UN UN3077 numb er:	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group:
EmS number:	F-A, S-F		

15. REGULATORY INFORMATION

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

US Federal Regulations CERCLA Hazardous substance and Reportable Quantity:				
SARA 313:		Listed		
SARA 302:		Not Listed		
State Regulations	<u>S</u>			
State Right-to-Kn	ow			
Massachuset	tts	Listed		
New Jersey		Listed		
Pennsylvania	3	Listed		
California Propos	sition 65:	Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification:	
Health:	2		Health:	2
Flammability:	1		Flammability:	1
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		204-358-0		

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.