

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 - Oral [Category 4] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 2] Carcinogenicity [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 2] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]
Signal word:	Warning!
Hazard Statement(s):	Harmful if swallowed May cause an allergic skin reaction Suspected of causing genetic defects Suspected of causing cancer Very toxic to aquatic life Very toxic to aquatic life Very toxic to aquatic life with long lasting effects May cause damage to organs: Blood

None.

4-Aminoazobenzene

For laboratory research purposes.

Not for drug or household use.

P0141

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. 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 protective gloves, protective clothing, face protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty

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of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. If exposed or concerned: Call a poison center or doctor. Collect spillage. 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] TCI AMERICA SAFETY DATA SHEET

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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Substance 4-Aminoazobenzene >98.0%(HPLC)(T) 60-09-3 197.24 C12H11N3 4-(Phenylazo)aniline 11000
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. 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. Call a POISON CENTER or doctor/physician. Rinse mouth.
No data available May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic to humans.
tention:
Dry chemical, foam, water spray, carbon dioxide.
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.
IRES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. t Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
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! any incompatibilities Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents. Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Impervious gloves.
Safety goggles. A face-shield, if the situation requires.
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 Pale yellow - Yellow red No data available No data available No data available			
Melting point/freezing point:	125°C (257°F)	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:	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:	No data available	
		Lower:	No data available	
		Upper:	No data available	
Solubility(ies): [Water] [Other solvents]	Insoluble (32mg/L, 25°C)			
Very soluble:	Ether, Alcohols, Benzene, Chloroform			

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: BY8225000

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Acute Toxicity: ipr-mus LD50:200 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)mmo-sat 50 nmol/plate (+S9)				
Carcinogenicity: orl-rat TDLo:89 g/kg/57W-C				
IARC: Group 2B (Possibly carcino to humans) .	genic NTP: No data a	available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s): May cause damage to organs: Blood				
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish:	48h LC50:0.23 mg/L (Oryzia 96h LC50:0.35 mg/L (Oryzia	s latipes)		
Crustacea: Algae:	96h LC50:0.23 mg/L (Oryzia 48h EC50:0.46 mg/L (Daphn 72h EC50:1.2 mg/L (Selenas	ia magna)		
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	umulative potential(BCF): 37.3 (conc. 6 ug/L), <31.6 (conc. 0.6 ug/L)			
Log Pow:	3.41			
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	624 8.8 x 10 ⁻⁶			
	0.0 x 10 *			
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: Other considerations:	Dispose of as unused produc Observe all federal, state and	ct. Do not re-use empty cont	tainers.	

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: III
IMDG UN UN3077 numb er:	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
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 Regu CERCLA Hazardo SARA 313: SARA 302:	l <u>ations</u> ous substance and Re	portable Quantity: Listed Not Listed		
State Regulations	<u>S</u>			
State Right-to-Kn	ow			
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos	sition 65:	Listed		
Other Information	<u>1</u>			
NFPA Rating:			HMIS Classification:	
Health:	0		Health:	0
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inventories				
Canada: DSL EC-No:		On DSL 200-453-6		

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.