

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: 5-Methylbenzimidazole M1321

Product use: Restrictions on use:

Company:

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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4]

Warning!

Signal word:

Hazard Statement(s): Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If swallowed: Immediately call a poison center or doctor. Rinse mouth. None Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Substance 5-Methylbenzimidazole >98.0%(GC)(T) 614-97-1 132.17 C₈H₈N₂

4. FIRST-AID MEASURES

For laboratory research purposes.

Not for drug or household use.

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

4. FIRST-AID MEASURES					
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if v is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involve take precautions to protect themselves. Call a poison center or doctor if you feel unwell. Remove and isolate contaminated clothing and shoe case of contact with substance, immediately flush skin with running water for at least 20 minutes. Tre symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involve take precautions to protect themselves.				
Skin contact:					
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Ingestion:	Harmful if swallowed. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Symptoms/effects:					
Acute: Delayed:	No data available No data available				
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, becaute inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the materia involved and take precautions to protect themselves.				
5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media:	Dry chemical, CO ₂ , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.				
Specific hazards arising from the chen Hazardous combustion products: Other specific hazards:	nical These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.				
heated. Move containers from fire area if Special protective equipment for fire-fi Wear positive pressure self-contained bre	, · · · · · · · · · · · · · · · · · · ·				
6. ACCIDENTAL RELEASE MEASU					
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Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.				
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Safety glasses. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or				
Emergency procedures:	equivalent. Wear protective gloves (nitrile). Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the				

Methods and materials for containment and cleaning up: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions:

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Pale yellow - Grayish re No data available No data available	ddish yellow		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	112°C (234°F) 172°C (342°F)/0.01kPa No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity	:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)		No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition tempe Flammability or ex Lower:		No data available lable
Solubility(ies): Water: Soluble		Upper:	No data avai	lable

Water: Soluble Soluble: Methanol

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: DD9275000

5-Methylbenzimidazole	TCI AMERICA P				
Acute Toxicity: orl-rat LDLo:500 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				
Reproductive toxicity: No data available					
Routes of Exposure: Symptoms related to exposure:	Inhalation, Eye contact, Ingestion.				
Overexposure may result in serious illness Potential Health Effects:					
No specific information available; skin and a Target organ(s):	eye contact may result in irriatation. May be harmful if inhaled or ingested. No data available				
12. ECOLOGICAL INFORMATION					
Factoriaity					
Ecotoxicity Fish:	No data available No data available				
Crustacea: Algae:	No data available				
Persistence and degradability:	No data available				
Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available				
Partition coefficient: n-octanol/water (log Pow)	No data available				
Soil adsorption (Koc):	No data available				
Henry's Law: constant (PaM³/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				
	rules and regulations. You may be able to dissolve or mix material with a combustible solvent a chemical incinerator equipped with an afterburner and scrubber system. This section is intended				
	assistance but does not replace these laws, nor does compliance in accordance with this section	on ensure			
	regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environm				
Disposal of container:	water ways, or the soil. 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.				
DOT (US) IATA	Non-hazardous for transportation. Non-hazardous for transportation.				

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulatio	ns			
CERCLA Hazardous	substance and Rep			
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations				
State Right-to-Know				
Massachusett	s	Not Listed		
New Jersey		Not Listed		
Pennsylvania		Not Listed		
California Propositio	n 65:	Not Listed		
Other Information				
NFPA Rating:			HMIS Classification:	
Health: 0			Health:	0
Flammability: 0			Flammability:	0
Instability: 0			Physical:	0
International Inventor	ries			
WHMIS hazard class: EC-No:	J		g other toxic effects. (V	'ery Toxic)
16. OTHER INFOR	MATION			

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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.