

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

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OSHA Haz Com: CFR 1910.1200:	Skin Corrosion/Irritation [Category 2]
WHMIS 2015:	Eye Damage/Irritation [Category 2A]
	Specific Target Organ Toxicity (Single Exposure) [Category 2]

Signal word:

Hazard Statement(s):

Causes skin irritation Causes serious eye irritation

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SAFETY DATA SHEET

May cause damage to organs: Kidney

Warning!

Dithizone D0949

For laboratory research purposes.

Not for drug or household use.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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. 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: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Dithizone >85.0%(E) 60-10-6 256.33 C13H12N4S Diphenylthiocarbazone

None.

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	
Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Ingestion:	Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth.
ingestion.	
Symptoms/effects:	
Acute:	Redness. No data available
Delayed:	
Indication of any immediate medical atte	ention:
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:	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. 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 Sulfur oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
	Combat fire from a sheltered position.
6. ACCIDENTAL RELEASE MEASU	DES
D. ACCIDENTAL RELEASE MEASO	
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to
equipment and emergency procedures: Environmental precautions:	non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains.
	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from
	heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of
	electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product.
	Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.
	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a Storage conditions:	ny incompatibilities Keep container tightly closed. Store in a cool and dark place.
Storage conditions.	Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling
	off.
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.
8. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION
Appropriate opgingering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed
Appropriate engineering controls:	system or local exhaust. Also install safety shower and eye bath.
Devocated average in the second	
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: Skin and body protection:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
okin and body protection.	mpervices protective clothing. I recetive boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Deep yellow red - Black No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	169°C (dec.) (336°F) No data available No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Acetate=1): Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble: Slightly soluble: Very slightly soluble:	Insoluble Ethanol Chloroform Ether, Carbon tetrachloride		

10. STABILITY AND REACTIVITY

No data
Stable (
May ex
Heat, S
Oxidizir
Carbon

No data available Stable under proper conditions. May explosively decompose on heating, shock, friction, etc. Heat, Shock, Friction Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Sulfur oxides

11. TOXICOLOGICAL INFORMATION

RTECS Number: LQ9450000

Acute Toxic ipr-mus LD50 orl-rat LD:>5	0:200 mg/kg		ivn-mus LD50:56 mg/kg		
Skin corros No data avai	ion/irritation: lable				
Serious eye No data avai	damage/irritation: lable				
Respiratory No data avai	or skin sensitization: lable				
Germ cell m No data avai	utagenicity: lable				
Carcinogen No data avai	-				
IARC:	No data available	NTP:	No data available	OSHA:	No data available
Reproductiv No data avai					

Target organ(s):

May cause damage to organs: Kidney

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	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:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. Consult an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. 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:	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.
IATA	Non-hazardous for transportation.
IMDG	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 Regu CERCLA Hazardo SARA 313: SARA 302:	l <u>ations</u> ous substance and Rep	oortable Quantity: Not Listed Not Listed		
State Regulations				
Massachuse	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information NFPA Rating: Health: Flammability: Instability:	n 2 0 0		HMIS Classification: Health: Flammability: Physical:	2 0 0
International Inve Canada: DSL EC-No:	entories_	On DSL 200-454-1		

16. OTHER INFORMATION

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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.