

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

1. IDENTIFICATION

Dimethyl Isophthalate
10157

Product use: Restrictions on use:

Product name:

Product code:

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Eye Damage/Irritation [Category 2B]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Wash hands and face thoroughly after handling. 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. None None

TCI AMERICA

SAFETY DATA SHEET

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Synonyms: Substance Dimethyl Isophthalate >99.0%(GC) 1459-93-4 194.19 C₁₀H₁₀O₄ Isophthalic Acid Dimethyl Ester

4. FIRST-AID MEASURES

Inhalation:

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim 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) involved and take precautions to protect themselves.

4. FIRST-AID MEASURES	
Skin contact:	If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. 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:	Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. 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:	Redness. No data available
Immediate medical attention:	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 material(s) 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 chem	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.
Special precautions for fire-fighters: Use water spray or fog; do not use straigh heated. Move containers from fire area if Special protective equipment for fire-fi	

Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

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. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

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:**

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 Precautions for safe handling: Avoid inhalation of vapor or mist. 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.

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7. HANDLING AND STORA	GE		
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 oxidizi		
8. EXPOSURE CONTROLS	PERSONAL PROTECTION		
Exposure limits:	No data available		
Appropriate engineering contro Good general ventilation should b ountains should be provided in a engineering/laboratory practices v	e sufficient to control airborne levels reas where there is any possibility th	s. Ventilation is normally required wh at workers could be exposed to the	en handling or using this product. Eyewash substance. Follow safe industrial
Personal protective equipment			
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Be sure Nitrile gloves. Safety glasses. Lab coat.	e to use a MSHA/NIOSH approved re	espirator or equivalent.
9. PHYSICAL AND CHEMIC	AL PROPERTIES		
Physical state (20°C): Form: Color:	Solid Crystal - Powder White - Almost white		
Odor: Odor threshold:	No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature:	69°C (156°F) 124°C (255°F)/0.3kPa No data available	pH: Vapor pressure: Vapor density:	No data available 1.3Pa/25°C 6.8
Relative density: Kinematic Viscosity:	No data available No data available	Dynamic Viscosity:	No data available
Partition coefficient: n-octanol/water (log Pow)	1.7	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	173°C (343°F) No data available	Autoignition temperature: Flammability or explosive li Lower: No da	No data available imits: ta available
		Upper: No da	ta available
Solubility(ies): Water: Insoluble (290 Soluble: Methanol	mg/L)		
10. STABILITY AND REACT	IVITY		
Reactivity: Chemical Stability: Possibility of Hazardous Reacti Conditions to avoid: ncompatible materials: Hazardous Decomposition Prod	ons: No hazardous reactivity Avoid excessive heat a Strong oxidizing agents	nd light.	on 7)
11. TOXICOLOGICAL INFO	RMATION		
RTECS Number: NT2540000			

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Acute Toxicity: ipr-mus LDLo:971 mg/kg		
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: eye-rbt 500 mg/24H MLD		
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: Eye contact may result in redness or pain. Potential Health Effects:	Inhalation, Eye contact, Ingestion, Skin contact. eye contact may result in irriatation. May be harmful if inhaled or ingested.	
Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish: Crustacea:	No data available No data available	
Algae:	No data available	
Persistence and degradability:	99% (by BOD), 100% (by HPLC), 96% (by TOC)	
Bioaccumulative potential (BCF): Mobillity in soil:	3.8 No data available	
Partition coefficient:	1.7	
n-octanol/water (log P _{ow}) Soil adsorption (Koc):	190	
Henry's Law:	6.2 x 10 ⁻³	
constant (PaM ³ /mol)		
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 chemical incinerator equipped with an afterburner and scrubber system. This section is intend assistance but does not replace these laws, nor does compliance in accordance with this sect regulatory compliance according to the law. US EPA guidelines for Identification and Listing o Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environ water ways, or the soil.	and burn in a led to provide tion ensure f Hazardous
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)	Non-hazardous for transportation.	
IATA	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

Toxic Substance Control Act (TSCA 8b.):

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

CERCLA Hazardo	us substance an	nd Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:	1	Not Listed		
State Regulations	<u>i</u>			
State Right-to-Kno	ow			
Massachusetts		Not Listed		
New Jerse	У	Not Listed Not Listed		
Pennsylva	nia			
California Proposition 65:		Not Listed		
Other Information	<u>1</u>			
NFPA Rating:		HMIS Classification:		
Health:	2	Health:	2	
Flammability:	1	Flammability:	1	
Instability:	0	Physical:	0	
International Inve	ntories			
WHMIS hazard class: EC-No:		D2B: Materials causing other toxic effects.	D2B: Materials causing other toxic effects. (Toxic) 215-951-9	

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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.