

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

4-Methylumbelliferone M0453

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

word:

Warning!

Hazard Statement(s):

Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



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

Hazards not otherwise classified: [HNOC] 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.

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:
Components:
Percent:
CAS RN:
Molecular Weight:
Chemical Formula:
Synonyms:

Substance 4-Methylumbelliferone >98.0%(T) 90-33-5 176.17 C₁₀H₈O₃ 7-Hydroxy-4-methylcoumarin

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 if you feel unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Eye contact: 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/attention. Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth. Symptoms/effects: Redness. Acute: Redness. Delayed: No data available Not available. No data available Stable Stituble extinguishing media: Dry chemical, foam, water spray, carbon dioxide. These products include: Carbon oxides Other specific hazards: 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 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. Preven product from entering drains. Wethods and materials for containment Sweep dus					
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Hand protection:Protective gloves.Eye protection:Safety glasses. A face-shield, if the situation requires.		Dust respirator. Follow local and national regulations			
Eye protection: Safety glasses. A face-shield, if the situation requires.					
	Eye protection:	•			
	Skin and body protection:	Protective clothing. Protective boots, if the situation requires.			

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Slightly pale yellow No data available No data available No data available				
Melting point/freezing point:	188°C (370°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:	No data available	Autoignition temperature:	No data available		
Flammability(solid, gas):	No data available	Flammability or explosive limits:			
, <u>, , , , , , , , , , , , , , , , , , </u>		Lower:	No data available		
		Upper:	No data available		
Solubility(ies):					
[Water]	Very slightly soluble				
[Other solvents]	, , ,				
Soluble:	Ethanol, Glacial acetic acid				
Slightly soluble:	Ether, Chloroform				
10. STABILITY AND REACTI	VIIY				

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

11. TOXICOLOGICAL INFORMATION

RTECS Number: GN7000000

Acute Toxicity: ipr-rat LD50:2550 mg/kg scu-rat LD50:7200 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

orl-rat LD50:3850 mg/kg

OSHA: No data available

Reproductive toxicity: orl-mus TDLo:1500 mg/kg (7-12D preg)

Target organ(s):

No data available

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Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow:	1.9
Soil adsorption (Koc):	No data available 1.1 x 10-4
Henry's Law (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 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:	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.

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15. REGULATORY INFORMATION

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

US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	lations_ ous substance and Rep	oortable Quantity: Not Listed Not Listed	
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania California Propos	ow its	Not Listed Not Listed Not Listed Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	2 0 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	entories_	On DSL 201-986-7	

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.