

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

3-Morpholinopropanesulfonic Acid [Good's buffer component for biological research] M0707

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:	Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]
Signal word:	Warning!
Hazard Statement(s):	Causes skin irritation Causes serious eye irritation
Pictogram(s) or Symbol(s):	

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.

Hazards not otherwise classified: [HNOC]

Precautionary Statement(s): [Prevention]

[Response]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	3-Morpholinopropanesulfonic Acid [Good's buffer component for biological research]
Percent:	>98.0%(T)
CAS RN:	1132-61-2
Molecular Weight:	209.26
Chemical Formula:	C7H15NO4S
Synonyms:	MOPS

None.

Page 1 of 5

4. FIRST-AID MEASURES			
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. Get medical		
Skin contact:	advice/attention if you feel unwell. 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.		
Ingestion:	Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth.		
ingestion.			
Symptoms/effects:			
Acute:	Redness.		
Delayed:	No data available		
ndication of any immediate medical atto	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	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fund		
hemical:	The second state is that a contract with a Nilsson second second state.		
lazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Sulfur oxides Closed containers may explode from heat of a fire.		
Sther specific hazards.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
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.		
Methods and materials for containment			
ind 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. Prevent		
-	dispersion of dust. Wash hands and face thoroughly after handling.		
	Use a local exhaust if dust or aerosol will be generated.		
Conditions for safe storage, including a	Avoid contact with skin, eyes and clothing.		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.		
-	Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		
3. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed		
	system or local exhaust as possible so that workers should not be exposed directly. Also install safety		
	shower and eye bath.		
Personal protective equipment			
	Dust respirator, Follow local and actional regulations		

uires.
ľ

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid		
Form:	Crystal - Powder		
Colour:	White - Almost white No data available		
Odour: Odor threshold:	No data available No data available		
Odour threshold:	No data available		
odour tillesiloid.			
Melting point/freezing point:	No data available	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	No data available
		Acetate=1):	
Flash point:	No data available	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		
10. STABILITY AND REACTI	IVITY		
Reactivity:	No data available		
Chemical stability:	Stable under proper co	anditions	
Possibility of hazardous reactio			
Possibility of hazardous reactions: No special reactivity has been reported. Incompatible materials: Oxidizing agents			
Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Sulfur oxides			
11. TOXICOLOGICAL INFORMATION			
Acute Toxicity:			
No data available			

TCI AMERICA

No data available

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

> No data available IARC:

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA:

No data available

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. 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.

2 1 0

Non-hazardous for transportation.

15. REGULATORY INFORMATION

IMDG

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:	<u>ations</u> ous substance and Rep	ortable Quantity: Not Listed Not Listed	
<u>State Regulations</u> State Right-to-Kn Massachuset New Jersey	ow	Not Listed Not Listed	
Pennsylvania California Propos		Not Listed Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	2 1 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	<u>ntories</u>	On DSL 214-478-5	

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.