

SAFETY DATA SHEET (SDS)


Manganese (II) nitrate, 0.1M

Issue date: 28-07-2020

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Manganese (II) nitrate, 0.1M
Product Codes:	MC91.20, MC92.20
Other means of identification:	
Chemical formula, alternative names:	Mn(NO ₃) _{2(aq)}
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	1/44 Rushdale Street Knoxfield Victoria 3180 Australia
Suppliers Phone No.:	1300 138 561
Suppliers Fax No.:	+613 9753 3896
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Serious Eye Damage/Eye Irritation Category 1, Oxidizing Liquid Category 2, Skin Corrosion/Irritation Category 2, Acute Toxicity - Inhalation Dust / Mist Category 3
Label elements	
Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	Causes skin irritation Causes severe eye irritation May cause damage to organs (brain) through prolonged or repeated exposure if inhaled <i>Potential hazards</i> Irritates eyes and skin.

Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid contact with clothing. Avoid contact with material. Avoid creating and inhaling spray or mist.
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable

Section 3: Composition/information on ingredients

Ingredients			
Name	CAS	Proportion	Hazard Class
Manganese (II) nitrate, tetrahydrate	20694-39-7	2.5%	Solid: Oxidizing solids (Category 3), Skin corrosion/irritation(Category 2), Serious eye damage/eye irritation(Category 2), Specific target organ toxicity -single exposure(Category 3), Respiratory system
Water	7732-18-5	97.5%	None

Section 4: First Aid Measures

General Information	
After Inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; Call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get Medical advice/ attention.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	Do not induce vomiting. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Use media suitable to extinguish surrounding fire
Special hazards arising for the substance or mixture:	No further relevant information available.
Advice for firefighters	

Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.
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Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labelled closed container. Do not allow the spilled product to enter public drainage system or open waterways.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials in a well ventilated place. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame. Keep away from combustible material. Keep container tightly sealed. Keep out of direct sunlight.
Specific end use(s):	No further relevant information available.

Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	

Ingredients with limit values that require monitoring at the workplace:

Name	STEL	TWA	
	mg/m3 ppm	mg/m3	Footnote
Manganese (II) nitrate	N/A	0.1	As Mn
Manganese (II) nitrate		0.02	As Mn, listed as respirable fraction
Additional information		The lists valid during the making were used as basis.	
Exposure Controls:			
General protective and hygienic measures:		Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.	
Respiratory protection:		In case of significant exposure use respiratory filter device. Not normally required.	
Clothing / Foot-wear and equipment		No special requirements.	
Protection of hands:		PVC or rubber gloves	
Eye protection:		Tightly sealed goggles	
Skin protection:		Laboratory Coat	

Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Red orange
Odour:	Not determined
Odour Threshold:	Not determined
pH value:	Not determined
Change in Condition:	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
Explosion limits	

Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
General Info	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Not determined

Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	Product is a strong oxidiser. Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion. Can react violently with reducing agents. Risk of explosion if heated under confinement.
Conditions to avoid:	Heat
Incompatible materials:	Water-reactive materials
Hazardous decomposition products:	Nitrogen oxides, metal oxides

Section 11: Toxicological information

Information on toxicological effects	
General	Acute toxicity
Primary irritant effect:	
Inhalation:	Not classified
Possibility of hazardous reactions:	Not classified
Conditions to avoid:	Not classified
Chronic Toxicity:	
General	Not classified

Section 12. Ecological information

Toxicity	
Aquatic toxicity:	This material is not expected to be harmful to the ecology.
Persistence and degradability:	No further relevant information available.
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

Section 13. Ecological information

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

General	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid and manganese nitrate), 8, pg III
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Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.