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Safety Data Sheet

Manganese Violet

SECTION 1: Identification

Product identifiers:

Product trade name: Manganese Violet.

Company product number:

Other means of identification:

Recommended use of the chemical and restrictions on use:

Uses: Pigment

Restrictions on use: None identified

SECTION 2: Hazard s) identification

Classification of the substance or mixture:

Not classified as hazardous under any GHS hazard class (UN GHS).

Label elements:

Hazard pictogram(s): Not Applicable

Signal word: Not Applicable

Hazard statements: Not Applicable

Precautionary statements: Not Applicable

Supplemental information: No Additional Information Other

hazards: Skin may discolor due to contact with pigment.

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Substance:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>
0010101-66-3	Manganese ammoumum pyrophosphate	95-100

SDS Name: Manganese Violet.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

SECTION 4: First- aid measures

Description of first aid measures:

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation: If affected, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Get medical attention if symptoms occur.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms and effects, both acute and delayed: Irritation, Skin contact may discolor skin due to pigment.

Individuals with pre-existing skin disorders, eye problems or impaired respiratory function may be more susceptible to the effects of this substance. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media:

Suitable: Carbon dioxide, foam, dry chemical, water.

Unsuitable: None known.

Special hazards arising From the chemical:

Unusual fire/explosion hazards: This product is not known to present any fire hazard.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition.

See section 10 (Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

See section 9 for additional information.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate.

Environmental precautions: Do not flush product into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Sweep up carefully and place into container for reuse or disposal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing dust. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.

Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

SECTION 8: Exposure controls / personal protection

Control parameters:

Occupational exposure limits (OEL):

<u>Chemical Name</u>	<u>ACGIH - TWA/Ceiling</u>	<u>ACGIH - STEL</u>			
Manganese ammonium pyrophosphate	0.02 mg/m ³ TWA (respirable particulate matter) (as Mn); 0.1 mg/m ³ TWA (inhalable particulate matter) (as Mn)	NE			
<u>Chemical Name</u>	<u>Australia</u>	<u>New Zealand</u>	<u>Korea</u>	<u>Taiwan</u>	
Manganese ammonium pyrophosphate	1 mg/m ³ TWA (as Mn)	1 mg/m ³ TWA (as Mn)	1 mg/m ³ TWA (as Mn)	5 mg/m ³ Ceiling (as Mn)	
<u>Chemical Name</u>	<u>Japan ISHL</u>	<u>Japan JSOH</u>	<u>Indonesia</u>	<u>Malaysia</u>	
Manganese ammonium pyrophosphate	0.2 mg/m ³ ACL (as Mn)	0.2 mg/m ³ OEL (as Mn)	0.2 mg/m ³ TWA (as Mn)	0.2 mg/m ³ TWA (as Mn)	
<u>Chemical Name</u>	<u>Philippines</u>	<u>Singapore</u>			
Manganese ammonium pyrophosphate	N/E	1 mg/m ³ PEL (as Mn)			

NE=Not established (no exposure limits established for the listed substances for listed country/region/organization).

The above exposure limits for manganese compounds refer to manganese. PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified (PNOS): 10 mg/m³ TWA (inhalable particles), 3 mg/m³ TWA (respirable particles).

Exposure controls:

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear eye protection.

Skin and body protection: Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Respiratory protection is not needed with proper ventilation.

Further information: Eyewash fountains and safety showers are recommended in the work area.

SECTION 9: Physical and chemical properties

SDS Name: Manganese Violet.

Form:	Powder	pH:	4.6
Appearance:	Violet	Relative density:	2.8
Odor:	None	Partition coefficient (n-octanol/water):	Not Available
Odor threshold:	Not Available	% Volatile by weight:	Not Available
Solubility in water:	Insoluble	VOC:	Not Available
Evaporation rate:	Non-volatile	Boiling point °C:	Not Available
Vapor pressure:	Not Applicable	Boiling point °F:	Not Available
Vapor density:	Non-volatile	Flash point:	Not Available
Viscosity:	Not Available	Auto-ignition temperature:	Not Available
Melting point/Freezing point:	Not Available	Flammability (solid, gas):	Not flammable
Oxidizing properties:	Not oxidizing	Flammability or explosive limits:	LFL/LEL Not Available
Explosive properties:	Not explosive		UFL/UEL Not Available
Decomposition temperature:	Not Available		

Other information: Amounts specified are typical and do not represent a specification.

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: None known.

Incompatible materials: Avoid strong acids, bases, and oxidizing agents.

Hazardous decomposition products: Oxides of nitrogen. Oxides of Phosphorous. Ammonium salts. Manganese compounds.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation.

Skin: Repeated or prolonged skin contact may cause irritation.

Inhalation: Dust inhalation may cause respiratory irritation.

Ingestion: Ingestion may cause irritation.

SDS Name: Manganese Violet.

Acute toxicity information: Not classified (based on available data, the classification criteria are not met). No toxicity studies have been conducted on this product. Oral LD50, Rat: >5000 mg/kg.

Chemical Name Inhalation LC50 Species Oral LD50 Species Dermal LD50 Species Manganese ammonium pyrophosphate N/E N/E 12900 mg/kg Rat/ adult N/E N/E

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).

Chemical Name Skin irritation Species Manganese ammonium pyrophosphate N/E N/E

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met).

Chemical Name Eye irritation Species Manganese ammonium pyrophosphate N/E N/E

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met).

Chemical Name Skin sensitisation Species Manganese ammonium pyrophosphate N/E N/E

Carcinogenicity: Not classified.

Germ cell mutagenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT) - single exposure: Not classified.

Specific target organ toxicity (STOT) - repeated exposure: Not classified.

Aspiration hazard: Not classified.

Other toxicity information: No additional information available.

SECTION 12: Ecological information

Ecotoxicity: No ecological testing has been conducted on this product.

Chemical Name Fish 96 hour LC50

Manganese ammonium pyrophosphate N/E

Chemical Name Invertebrates 48 hour EC50

Manganese ammonium pyrophosphate N/E

Chemical Name Algae 96 hour EC50

Manganese ammonium pyrophosphate N/E

Fish 96 hour LC50

N/E

Fish Chronic NOEC

N/E

Invertebrates 24 hour EC50

N/E

Invertebrates Chronic NOEC

N/E

Algae 72 hour EC50

N/E

Algae Chronic NOEC

N/E

Persistence and degradability: No specific information available.

Chemical Name Biodegradation

Manganese ammonium pyrophosphate N/E

Bioaccumulative potential: No specific information available.

Chemical Name Bioconcentration Factor (BCF) Log Kow Manganese ammonium pyrophosphate N/E N/E

Mobility in soil: No specific information available.

Chemical Name Mobility in soil (Koc/Kow)

Manganese ammonium pyrophosphate N/E

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

Dispose of unused contents (incineration or landfill) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

SDS Name: Manganese Violet.

SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details **Transport**

hazard class(es):

U.S. DOT hazard class: N/A

Canada TDG hazard class: N/A

Europe ADR/RID hazard class: N/A

IMDG Code (ocean) hazard class: N/A

ICAO/IATA (air) hazard class: N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not Applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

Japan regulations:

Japan Industrial Safety and Health Law:

Chemical name	Category
Manganese ammonium pyrophosphate	N/E

Japan Fire Service Law:

Chemical name	Category
No subject chemicals	

Japan Poisonous and Deleterious Substances:

Chemical name	Category	Threshold
No subject chemicals		

Japan Prevention of Marine Pollution and Disaster:

Chemical name	Category
No subject chemicals	

Japan Chemical Substances Control Law:

Chemical name	Category	Notes
No subject chemicals		

Korean regulations:

Korea Industrial Safety and Health Act:

SDS Name: **Manganese Violet.**

Chemical name

Cat o

Threshold

No subject chemicals

Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:

No subject chemicals

Korea Chemical Control Act (CCA):

Chemical name

Cat o

Code

Threshold

No subject chemicals

Korea Safety Control of Dangerous Substances Act (MPSS):

Chemical name

Class

Threshold

No subject chemicals

Korea Waste Control Act: Waste disposal methods must comply with local and national laws.

Chemical name

Notes

No subject chemicals

Other regulations: No Additional Information

Chemical inventories:

Regulation

Status

Australian Inventory of Chemical Substances (AICS):

Y

Canadian Domestic Substances List (DSL):

Y

Canadian Non-Domestic Substances List (NDSL):

N

China Inventory of Existing Chemical Substances (IECSC):

Y

European Inventory of Existing Chemical Substances (EINECS):

Y

European List of Notified Chemical Substances (ELINCS):

N

Japan Existing and New Chemical Substances (ENCS):

N

Japan Industrial Safety and Health Law (ISHL):

N

Korean Existing and Evaluated Chemical Substances (KECL):

Y

New Zealand Inventory of Chemicals (NZIoC):

Y

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

Y

Taiwan Inventory of Existing Chemicals:

Y

U.S. Toxic Substances Control Act (TSCA):

Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

Europe REACH (EC) 1907/2006: Applicable components are pre-registered, exempt or otherwise compliant. REACH is only relevant to substances either manufactured or imported into the EU. REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

Chemical inventory notes: New Zealand: One or more components may be covered by a group standard.

SECTION 16: Other information

SDS Name: Manganese Violet.

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable

N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer:

Product Compliance Department