

| Manganese Carbide Mn3C | Pricing > |
|------------------------|-------------------|
| Linear Formula | Mn ₃ C |
| Pubchem CID | 166616 |
| MDL Number | N/A |
| EC No. | 235-178-0 |
| IUPAC Name | N/A |
| Beilstein/Reaxys No. | N/A |
| SMILES | N/A |
| Inchl Identifier | N/A |
| Inchl Key | N/A |

| Signal Word | Warning |
|-----------------------------|---|
| Hazard Statements | H228-H319 |
| Hazard Codes | F |
| Precautionary Statements | P210-P240-P241-P264-P280-P305+P338+P351-P337+P313-P370+P378 |
| Risk Codes | N/A |
| Safety Statements | N/A |
| Transport Information | UN 3089 4.1/PG III |
| GHS Pictograms | GHS02 Flame GHS07 Exclamation Point •••••••••••••••••••••••••••••••••• |

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SAFETY DATA SHEET

Date Accessed: 04/23/2024 **Date Revised:** 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12121-90-3

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Category 2
Serious Eye Damage/Eye Irritation Category 2
Label Elements
Signal Word:
Warning

Hazard Statements: Flammable solid

Causes serious eye irritation



Precautionary Statements

Prevention:

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment Use explosion-proof

electrical/ventilating/lighting/equipment

Wear protective gloves/protective clothing/eye protection/face protection

Eyes:

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/attention Fire:

In case of fire: Use CO2, dry chemical, or foam for extinction

Hazards not otherwise classified (HNOC)

None identified

SECTION 3. COMPOSITION/INFORMATION

ON INGREDIENTS

Component: Manganese 7439-96-5 Carbon 7440-44-0

SECTION 4. FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation:

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention. Ingestion:

Clean mouth with water. Get medical attention.

Most important symptoms and effects:

No information available.

Notes to Physician:

Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical. Unsuitable Extinguishing: Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature

Explosion Limits:

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No

Specific Hazards Arising from the Chemical:

Combustible material

Hazardous Combustion Products:

None known

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

NFPA

Health

2

Flammability

Physical hazards N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions: See Section 12 for additional ecological information.

Methods for Containment and Clean Up:

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Do not breathe dust. Use explosion-proof equipment. Use only non-sparking tools.

Storage:

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep under nitrogen.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ACGIH TLV:

TWA: 0.02 mg/m3 TWA: 0.1 mg/m3

OSHA PEL:

(Vacated) TWA: 1 mg/m3 Ceiling: 5 mg/m3

(Vacated) STEL: 3 mg/m3 (Vacated) Ceiling: 5 mg/m3

NIOSH IDLH:

IDLH: 500 mg/m3 TWA: 1 mg/m3 STEL: 3 mg/m3

Mexico OEL (TWA):

TWA: 0.2 mg/m3 TWA: 1 mg/m3 STEL: 3 mg/m3

Engineering Measures:

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection:

No protective equipment is needed under normal use conditions.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State No information available

Appearance No information available

Odor No information available

Odor Threshold No information available

pH No information available

Melting Point/Range No information available

Boiling Point/Range No information available

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility No information available

Partition coefficient; n-octanol/water No data available

Autoignition Temperature

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula Mn3C

Molecular Weight No information available

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available

Stability: Moisture sensitive.

Conditions to Avoid: Incompatible products. Exposure

to moisture.

Incompatible Materials: Acids, Bases, Halogens Hazardous Decomposition Products: None under

normal use conditions

Hazardous Polymerization: Hazardous polymerization

does not occur.

Hazardous Reactions: None under normal

processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:

Component Information:

Component LD50 Oral LD50 Dermal LC50 Inhalation

Manganese LD50 = 9 g/kg (Rat) Not listed Not listed

Toxicologically Synergistic Products

No information available

Delayed and immediate effects as well as chronic

effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity
IARC: Not listed
NTP: Not listed
ACGIH: Not listed
OSHA: Not listed
Mexico: Not listed

Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available.

Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects,both acute and delayed

No information available

Endocrine Disruptor Information

No information available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability:

Insoluble in water

Bioaccumulation/ Accumulation:

No information available.

Mobility:

Is not likely mobile in the environment due its low

water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT

UN-No UN3089

Hazard Class 4.1

Packing Group III

TDG

UN-No UN3089

Hazard Class 4.1

Packing Group III

IATA

UN-No 3089

Proper Shipping Name METAL POWDER,

FLAMMABLE, N.O.S. Hazard Class 4.1

Packing Group III

IMDG/IMO

UN-No 3089

Proper Shipping Name METAL POWDER,

FLAMMABLE, N.O.S. Hazard Class 4.1

Packing Group III

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SECTION 15. REGULATORY INFORMATION

TSCA: X DSL: X

NDSL: -

EINECS: 231-105-1

ELINCS: -

NLP

PICCS: X

ENCS: -

IECSC: X

KECL: X

U.S. Federal Regulations

TSCA 12(b) Not applicable

CWA (Clean Water Act) Not applicable

Clean Air Act HAPS Data: X Class 1 Ozone Depletors Class 2 Ozone Depletors: -

OSHA:

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not

contain any Proposition 65 chemicals U.S. State Right-to-Know Regulations

Component; Manganese

Massachusetts: X New Jersey: X Pennsylvania: X

Illinois: X

Rhode Island: X

U.S. Department of Transportation

Reportable Quantity (RQ): N DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.