

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers Product Name: Cyclopentadienylmanganese(I) tricarbonyl CAS Number: 12079-65-1 Catalog Numbers: A329851 1.2 Relevant identified uses of the substance or mixture and uses advised against For laboratory research purposes.Not for drug or household use. Identified uses: 1.3 Details of the supplier of the safety data sheet Ambeed, Inc. 3205 N WILKE RD, STE 3205-125, Arlington Hts, IL 60004, USA AnBer Tel: 630-580-1088 E-mail: sales@ambeed.com 1.4 Emergency telephone number Emergency phone (USA): 1-352-323-3500 Emergency phone (Canada): 1-800-535-5053 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, oral(Category 1, 2) H300 No Resource File 2.2 GHS Label elements, including precautionary statements Pictogra Signal word: Danger Hazard statement(s) Fatal if swallowed H300 Precautionary statement(s) P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P405 Store locked up. P501 Dispose of contents/container to in accordance with local regulation 2.3 Other hazards Additional precautionary phrases are located throughout the safety data sheet. COMPOSITION, INFORMATION ON INGREDIENTS 3.

| 0.   |                           |                      |               |               |  |  |  |
|--|---------------------------|----------------------|---------------|---------------|--|--|--|
| 3.1  | Molecular Formula:        | C8H5MnO3             | 200           |               |  |  |  |
|  | Molecular Weight:         | 204.06               | -             |               |  |  |  |
|  | Component                 | · · · ·              | Concentrati   | ion           |  |  |  |
|  | Cyclopentadienylmanganese |                      |               |               |  |  |  |
|  | CAS Number                | 12079-65-1           | -             | 4             |  |  |  |
| Product Url: www.ambeed.com/products/12079-65-1.html For Researc |                           |                      |               |               |  |  |  |
| 0  | 630-580-1088 🗐 630-58     | 81-0788 🛛 🖾 sales@an | nbeed.com 🗨 w | ww.ambeed.com |  |  |  |

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#### 4.1 Description of first aid measures

# General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: alcohol-resistant foam, dry chemical or carbon dioxide Unsuitable extinguishing media: no data AmBeed

# 5.2 Special hazards arising from the substance or mixture

In combustion toxic fumes may form.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### ACCIDENTAL RELEASE MEASURES 6.

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not attempt to take action without suitable protective clothing. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas.

#### Methods and materials for containment and cleaning up 6.3

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Reference www.ambeed.com



Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for MAMBeed disposal by an appropriate method.

# 6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area.

Normal measures for preventive fire protection. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.Inert atmosphere,2-8°C

#### 7.3 Specific end use(s)

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

#### EXPOSURE CONTROLS, PERSONAL PROTECTION 8.

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate engineering controls

AmBei Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the AmBee end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

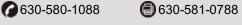
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

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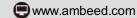
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Do not let product enter drains.

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

Appearance **Boiling Point** Melting Point Odour Odour Threshold pН Flash point Evapouration rate Vapour pressure Vapor Density Relative density VAMB4 Solubility in water Auto-ignition temperature Decomposition temperature Viscosity No Data Explosive properties Oxidizing properties

No data available No data available

Form: solid

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## 10. STABILITY AND REACTIVITY

10.1 Reactivity

- Stable under recommended storage conditions. Possibility of hazardous reaction: 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Not data available
- 10.5 Incompatible materials Strong oxidizing agents
- 10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide, metallic oxides

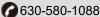
#### 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
  - Acute Toxicity Skin corrosion/irritation Serious eye Damage/irritation Respiratory or skin sensitisation Germ Cell mutagenicity Carcinogenicity

No data available No data available No data available No data available No data available

No data available

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Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard

No data available No data available No data available No data available

## 11.2 Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

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# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available
- 12.5 Results of PBT and vPvB assessment No data available
- 12.6 Other adverse effects No data available
- **DISPOSAL CONSIDERATIONS** 13.

### 13.1 Waste treatment methods

#### **Disposal Operations**

AmBeed Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

#### **Disposal of Packaging**

Disposal must be made according to official regulations.

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# 14. TRANSPORT INFORMATION

|      | Disposal must be made according t   | o official regulations.  |             | - ch         |                        |
|------|---|--------------------------|-------------|--------------|------------------------|
| 14.  | TRANSPORT INFORMATION   |                          | R           | AmBer        |                        |
| 14.1 | UN number   | 4                        |             |              |                        |
|      | ADR/RID: 2811   | IMDG: 2811               | IATA: 281   | 1            |                        |
| 14.2 | UN proper shipping name<br>ADR/RID: Toxic solid, organic, n.o.s<br>IMDG: Toxic solid, organic, n.o.s.<br>IATA: Toxic solid, organic, n.o.s. | Ame                      |             |              |                        |
| 14.3 | Transport hazard class(es)  |                          |             |              |                        |
|      | ADR/RID: 6.1  | IMDG: 6.1                | IATA: 6.1   |              |                        |
| 14.4 | Packaging group   |                          |             |              |                        |
| Pro  | ADR/RID: II<br>duct Url: www.ambeed.com/products/120  | IMDG: II<br>79-65-1.html | à IATA: II  | Fo           | or Research Use Only ! |
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- 14.5 Environmental hazards ADR/RID: -
- 14.6 Special precautions for user

No special precautions required

#### 14.7 Further information

No data available

# 15. REGULATORY INFORMATION

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

**IMDG** 

#### California Proposition 65

Not listed on California's listing of known or potential carcinogens.

#### **U.S. Federal Regulations**

SARA 313: Not applicable

SARA 302: Not applicable

SARA 311/312 Hazard Categories: See section 2 for more information

#### Safety Assessment

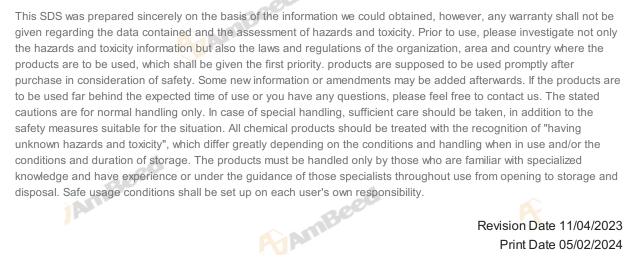
No Chemical Safety Assessment

# 16. OTHER INFORMATION

The reference company name of written contents

#### Company: Ambeed, Inc.

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