


International Chemical Safety Cards

METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL

ICSC: 1169



MMT
C₉H₇MnO₃
Molecular mass: 218.1

ICSC # 1169
CAS # 12108-13-3
RTECS # [OP1450000](#)
UN # 2810
November 27, 2003 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 96°C explosive vapour/air mixtures may be formed.	Above 96°C use a closed system, ventilation.	
EXPOSURE		PREVENT GENERATION OF MISTS! STRICT HYGIENE!	
•INHALATION	Abdominal pain. Dizziness. Headache. Laboured breathing. Nausea. Cough. Sore throat.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
•SKIN	MAY BE ABSORBED! Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness. Pain.	Safety spectacles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	Separated from food and feedstuffs .	Do not transport with food and feedstuffs. UN Hazard Class: 6.1 UN Packing Group: I
SEE IMPORTANT INFORMATION ON BACK		
ICSC: 1169	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

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I M P O R T A N T I N F O R M A T I O N	<p>PHYSICAL STATE; APPEARANCE: DARK ORANGE LIQUID , WITH CHARACTERISTIC ODOUR.</p> <p>PHYSICAL DANGERS:</p> <p>CHEMICAL DANGERS: On combustion, forms irritating and toxic fumesincluding manganese oxides and carbon monoxide. The substance decomposes under the influence of light .</p> <p>OCCUPATIONAL EXPOSURE LIMITS: TLV: as manganese 0.2 mg/m³, as TWA; (skin); (ACGIH 2003). OSHA PEL[†]: C 5 mg/m³ NIOSH REL: TWA 0.2 mg/m³ skin NIOSH IDLH: N.D. See: IDLH INDEX</p>	<p>ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.</p> <p>INHALATION RISK: A harmful contamination of the air will will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.</p> <p>EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the skin . The substance may cause effects on the central nervous system , kidneys , liver and lungs , resulting in tissue lesions . Exposure at high levels may result in death. Medical observation is indicated.</p> <p>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</p>
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ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

NOTES

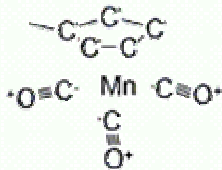
Do NOT take working clothes home.
Transport Emergency Card: TEC (R)-61G1-I

ADDITIONAL INFORMATION

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IMPORTANT LEGAL NOTICE:

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

Molecular Structure:

Name: MANGANESE TRICARBONYL METHYLCYCLOPENTADIENYL

CAS Number: 12108-13-3

Molecular Formula: C₉H₇MnO₃

Molecular Weight: 218.10

Melting Point: -1 °C(lit.)

Boiling Point: 232-233 °C(lit.)

Flash Point: 96 C

Solubility:

Stability

Stable. Incompatible with strong oxidizing agents.

Toxicology

Toxic - may be fatal if swallowed, inhaled or absorbed through the skin. Manganese dusts reduce male fertility and may increase the li

Risk Codes: 23/24/25-40

Appearance: liquid

- **Hazard Symbols: Toxic by ingestion, inhalation, and skin absorption. TWA 5 mg(Mn)/m³.**
- **Properties:** Yellow liquid. D: 1.388 @ 20°/4°, mp: 1.5°, bp: 233°. Almost insol in H₂O; misc in nonpolar solvs