

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 00/00

Revision: 00/00

Trade name: 5LVORHSHU)HO2FWDH%RRVW

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- **Density:**
 - Relative density at 20 °C (68 °F): 0.78 g/cm³ (6.509 lbs/gal)
 - Vapor density: Not determined.
 - Evaporation rate: Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- **Other information** No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions:**
 - Flammable.
 - Reacts with strong acids and oxidizing agents.
 - Toxic fumes may be released if heated above the decomposition point.
 - Used empty containers may contain product gases which form explosive mixtures with air.
 - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** Oxidizers
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Hydrocarbons
 - Toxic metal oxide smoke

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

Oral	LD50	58 mg/kg (rat)
Dermal	LD50	140 mg/kg (rabbit)
Inhalative	LC50/4h	0.076 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Slight irritant effect on skin and mucous membranes.
- **On the eye:** Slight irritant effect on eyes.

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- **Sensitization:** Based on available data, the classification criteria are not met.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

91-20-3	naphthalene	2B
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- **NTP (National Toxicology Program):**

91-20-3	naphthalene	R
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Toxic if inhaled.
Vapors have narcotic effect.

- **Repeated dose toxicity:** Danger of very serious irreversible effects.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:**

Causes damage to the central nervous system through prolonged or repeated exposure.

- **Aspiration hazard:** May be fatal if swallowed and enters airways.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

- **Persistence and degradability:** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Harmful to fish
Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

- **Additional ecological information**

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

- **Other adverse effects:** No relevant information available.

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13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT**

Not regulated.

Reclassified as combustible under US DOT regulations. Labeling is only required for single packages ≥ 119 US gal / 450 L to include Combustible symbol and Proper Shipping Name.

- **ADR, IMDG, IATA**

UN1993

- **UN proper shipping name**

- **DOT**

Not regulated.

- **ADR, IMDG**

FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)

- **IATA**

Flammable liquids, n.o.s. (Stoddard solvent)

- **Transport hazard class(es)**

- **DOT**

- **Class**

Not regulated.

- **ADR**



- **Class**

3 (F1) Flammable liquids

- **Label**

3

- **IMDG, IATA**



- **Class**

3 Flammable liquids

- **Label**

3

- **Packing group**

- **DOT**

Not regulated.

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· ADR, IMDG, IATA	III
· Environmental hazards	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E, <u>S-E</u>

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**



Limited Quantity for packages less than 30 kg and inner packagings less than 5L.

· **IMDG**



Limited Quantity for packages less than 30 kg and inner packagings less than 5L.

· **IATA**



Limited Quantity for packages less than 30 kg and inner packagings less than 10L.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 304 (emergency release notification):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

12108-13-3 | tricarbonyl(methylcyclopentadienyl)manganese

· **Section 313 (Specific toxic chemical listings):**

12108-13-3 | tricarbonyl(methylcyclopentadienyl)manganese

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

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- **Proposition 65 (California)**
- **Chemicals known to cause cancer:**
Present in trace quantities.

91-20-3	naphthalene
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- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer):**

91-20-3	naphthalene	2B
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- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

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.

- **Date of preparation / last revision** 07/25/2016 / -

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

LDLo: Lowest Lethal Dose Observed

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

- **Sources**

Website, European Chemicals Agency (echa.europa.eu)Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do)Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

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Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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