



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA HCS 2024 and Canada Hazardous Products Act (HPA) and
Hazardous Products Regulation (HPR), as amended

Issuing Date 12-Apr-2024

Revision date 20-Feb-2025

Revision Number 2

1. Identification

Product identifier

Product Name Motorcycle Octane Boost

Other means of identification

Product Code(s) MOB

UN number or ID number UN3082

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Gasoline additive

Restrictions on use Avoid formation of mists

Details of the supplier of the safety data sheet

Supplier Address
AMSOIL INC.
Bay Adelaide Centre, East Tower
22 Adelaide St. W
Toronto, ON, Canada M5H 4E3
T:+1 877-822-5172

Manufacturer Address
AMSOIL INC.
One AMSOIL Center
Superior, WI 54880, USA
T: +1 715-392-7101

E-mail compliance@amsoil.com

Emergency telephone number

Emergency telephone CHEMTREC: Within USA and Canada: 1-800-424-9300
Outside the USA and Canada: +1 703-741-5970
(collect calls accepted) 24/7

2. Hazard(s) identification

Classification of the substance or mixture

| | |
|--|------------|
| Flammable liquids | Category 4 |
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 3 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Aspiration hazard | Category 1 |

Label elements

Danger

Hazard statements

Combustible liquid.
Harmful if swallowed.
Toxic if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.

**Precautionary Statements - Prevention**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust, fume, gas, mist, vapors and spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary Statements - Response

Specific treatment is urgent (see supplemental first aid instructions on this label).
IF exposed or concerned: Get medical advice/attention.

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 and attention.

Skin

IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice and attention.
Take off contaminated clothing and wash it before reuse.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Rinse mouth.
Do NOT induce vomiting.

Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statements - Storage

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Unknown acute toxicity

97.817 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
99.057 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

| Chemical name | CAS No. | Weight-% |
|---|------------|----------|
| Petroleum distillates | 68476-34-6 | 80-100 |
| Petroleum distillates | 64742-94-5 | 0.5-1.5 |
| Manganese, Tricarbonyl methylcyclopentadienyl | 12108-13-3 | 0.5-1.5 |
| Petroleum distillates | 64742-47-8 | 0.1-1 |
| Naphthalene | 91-20-3 | < 0.1 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Chemical Additions

The classification as a carcinogen does not apply as it can be shown that the substance(s) contain(s) less than 3% DMSO extract as measured by IP 346.

4. First-aid measures**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.

Inhalation

Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist. See section 8 for more

information.

Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|---|
| Symptoms | Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
| Effects of Exposure | No information available. |

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|---|
| Note to physicians | Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. |
|---------------------------|---|

5. Fire-fighting measures

| | |
|---|--|
| Suitable Extinguishing Media | Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam. |
| Unsuitable extinguishing media | Do not use a solid water stream as it may scatter and spread fire. |
| Specific hazards arising from the chemical | Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. |
| Hazardous combustion products | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | Yes. |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|---------------------------------|--|
| Personal precautions | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |

Methods and material for containment and cleaning up

| | |
|------------------------------------|--|
| Methods for containment | Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. |
| Methods for cleaning up | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |
| Reference to other sections | For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations. |

7. Handling and storage

Precautions for safe handling**Advice on safe handling**

Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Store away from other materials.

8. Exposure controls/personal protection**Working area parameters, subject to mandatory control (MAC or TSEL)****Exposure Limits**

Under conditions which may generate mists, the following exposure limits are recommended: Long-term exposure limit (8-hour TWA): 5 mg/m³. Short-term exposure limit (15-minute): 10 mg/m³. The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH | |
|--|---|--|--|--|
| Petroleum distillates 68476-34-6 | TWA: 100 mg/m ³ total Hydrocarbons inhalable fraction and vapor pSk | - | - | |
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | TWA: 0.2 mg/m ³ Mn pSk | (vacated) TWA: 0.2 mg/m ³ Mn Ceiling: 5 mg/m ³ Mn (vacated) Ceiling: 5 mg/m ³ Sdv | TWA: 0.2 mg/m ³ ; Mn STEL: 3 mg/m ³ Mn IDLH: 500 mg/m ³ Mn | |
| Naphthalene 91-20-3 | TWA: 10 ppm pSk | TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³ | TWA: 10 ppm; TWA: 50 mg/m ³ ; STEL: 15 ppm STEL: 75 mg/m ³ IDLH: 250 ppm | |
| Chemical name | Alberta | British Columbia | Ontario | Quebec |
| Petroleum distillates 68476-34-6 | TWA: 100 mg/m ³ ; | TWA: 100 mg/m ³ ; inhalable; inhalable aerosol and vapour Sk | TWA: 100 mg/m ³ ; inhalable fraction and vapor dSk | TWAEV: 100 mg/m ³ ; inhalable fraction and vapour |
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | TWA: 0.2 mg/m ³ ; pSk | TWA: 0.2 mg/m ³ ; Sk | TWA: 0.2 mg/m ³ ; dSk | TWAEV: 0.2 mg/m ³ ; Sd |
| Naphthalene 91-20-3 | TWA: 10 ppm; TWA: 52 mg/m ³ ; STEL: 15 ppm; STEL: 79 mg/m ³ ; pSk | TWA: 10 ppm; Sk | TWA: 10 ppm; dSk | TWAEV: 10 ppm; Sd |

| Chemical name | Manitoba | New Brunswick | Newfoundland and Labrador | Nova Scotia |
|--|--|--|--|--|
| Petroleum distillates | TWA: 100 mg/m ³ ; inhalable fraction and vapor pSk | TWA: 100 mg/m ³ ; inhalable fraction and vapor pSk | TWA: 100 mg/m ³ ; inhalable fraction and vapor pSk | TWA: 100 mg/m ³ ; inhalable fraction and vapor pSk |
| Manganese, Tricarbonyl methylcyclopentadienyl | TWA: 0.2 mg/m ³ ; pSk | TWA: 0.2 mg/m ³ ; pSk | TWA: 0.2 mg/m ³ ; pSk | TWA: 0.2 mg/m ³ ; pSk |
| Naphthalene | TWA: 10 ppm; pSk | TWA: 10 ppm; pSk | TWA: 10 ppm; pSk | TWA: 10 ppm; pSk |

| Chemical name | Nunavut | Prince Edward Island | Saskatchewan | Yukon |
|--|---|---|--|--|
| Petroleum distillates | TWA: 100 mg/m ³ ; vapour STEL: 150 mg/m ³ ; vapour Sk | TWA: 100 mg/m ³ ; inhalable fraction and vapor | TWA: 100 mg/m ³ ; vapour STEL: 150 mg/m ³ ; vapour pSd | |
| Manganese, Tricarbonyl methylcyclopentadienyl | TWA: 0.2 mg/m ³ ; STEL: 0.6 mg/m ³ ; Sk | TWA: 0.2 mg/m ³ ; | TWA: 0.2 mg/m ³ ; STEL: 0.6 mg/m ³ ; pSd | TWA: 0.1 ppm; TWA: 0.2 mg/m ³ ; STEL: 0.3 ppm; STEL: 0.6 mg/m ³ ; Sk |
| Naphthalene | TWA: 10 ppm; STEL: 15 ppm; Sk | TWA: 10 ppm; | TWA: 10 ppm; STEL: 15 ppm; pSd | TWA: 10 ppm; TWA: 50 mg/m ³ ; STEL: 15 ppm; STEL: 75 mg/m ³ ; |

Note

See section 16 for terms and abbreviations.

Other information on limit values

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

| Chemical name | ACGIH |
|------------------------|---|
| Naphthalene 91-20-3 | - (1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis) - end of shift |

Appropriate engineering controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

If there is a risk of contact: Tight sealing safety goggles.

Hand protection

If there is a risk of contact: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wear suitable gloves. Impervious gloves.

Skin and body protection

If there is a risk of contact: Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state Liquid
Color Clear / Red
Odor (includes odor threshold) Petroleum

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|----------------------|-------------------------|
| Melting point / freezing point | | No data available |
| Boiling point (or initial boiling point or boiling range) | | No data available |
| Flammability | | No data available |
| Flammability Limit in Air | | No data available |
| Upper flammability or explosive limits | | No data available |
| Lower flammability or explosive limits | | No data available |
| Flash point | > 61 °C / > 141.8 °F | CC (closed cup) |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| SADT (°C) | | No data available |
| pH | | No data available |
| pH (as aqueous solution) | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | | No data available |
| Solubility | | No data available |
| Water solubility | Insoluble in water | No data available |
| Partition coefficient n-octanol/water (log value) | | No data available |
| Vapor pressure (includes evaporation rate) | | No data available |
| Evaporation rate | | No data available |
| Density and/or relative density | 0.817 - 0.894 | @21.1°C |
| Bulk density | | No data available |
| Liquid Density | | No data available |
| Relative vapor density | | No data available |
| Particle characteristics | | |
| Particle Size | | No data available |
| Particle Size Distribution | | No data available |

Other information

Molecular weight No information available
VOC content No information available
Softening point No information available

Information with regard to physical hazard classes

Explosives

Explosive properties No information available

Oxidizing properties

No information available

10. Stability and reactivity

| | |
|---|--|
| Reactivity | None under normal use conditions. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | Heat, flames and sparks. Excessive heat. |
| Incompatible materials | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Toxic by inhalation. (based on components). |
| Eye contact | Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). |
| Ingestion | Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components). |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---|
| Symptoms | Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|-----------------|---|

| | |
|------------------------------|--|
| <u>Acute toxicity</u> | Toxic by inhalation. Harmful if swallowed. |
|------------------------------|--|

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATEmix (dermal) 2,021.10 mg/kg

Unknown acute toxicity

97.817 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.057 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|-------------------------|--|
| Petroleum distillates | - | > 2000 mg/kg (Rabbit) | = 3.6 mg/L (Rat) 4 h = 5.4 mg/L (Rat) 4 h |
| Petroleum distillates | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 590 mg/m ³ (Rat) 4 h |
| Manganese, Tricarbonyl methylcyclopentadienyl | = 58 mg/kg (Rat) | = 140 mg/kg (Rabbit) | = 0.076 mg/L (Rat) 4 h |
| Petroleum distillates | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4 h |

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|----------------------|-------------------------|------------------------|
| Naphthalene | = 1110 mg/kg (Rat) | = 1120 mg/kg (Rabbit) | > 0.4 mg/L (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|--|
| Skin corrosion/irritation | Classification based on data available for ingredients. Causes skin irritation. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-------------------------------------|--|----------|------------------------|------|
| Petroleum distillates 68476-34-6 | A3 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel fuel) | Group 3 | - | - |
| Naphthalene 91-20-3 | A3 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans | Group 2B | Reasonably Anticipated | X |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

| | |
|---------------------------------|---|
| Reproductive toxicity | No information available. |
| STOT - single exposure | May cause respiratory irritation. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | May be fatal if swallowed and enters airways. |

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-------------------------------------|----------------------|---|----------------------------|-----------------------|
| Petroleum distillates 68476-34-6 | - | LC50: =35mg/L (96h, Pimephales promelas) | - | - |
| Petroleum distillates | - | LC50: =19mg/L (96h, | - | EC50: =0.95mg/L (48h, |

| | | | | |
|---|---|--|---|--|
| 64742-94-5 | | Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h, Pimephales promelas) | | Daphnia magna) |
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | - | LC50: =0.21mg/L (96h, Cyprinus carpio) | - | - |
| Petroleum distillates 64742-47-8 | - | LC50: =45mg/L (96h, Pimephales promelas) LC50: =2.2mg/L (96h, Lepomis macrochirus) LC50: =2.4mg/L (96h, Oncorhynchus mykiss) | - | - |
| Naphthalene 91-20-3 | - | LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss) | - | EC50: 1.09 - 3.4mg/L (48h, Daphnia magna) |

Persistence and degradability No information available.

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|---|-----------------------|
| Petroleum distillates 64742-94-5 | 6.5 |
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | 3.4 |
| Naphthalene 91-20-3 | 3.4 |

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California waste information This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT

UN number or ID number UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

| | |
|--|--|
| Transport hazard class(es) | 9 |
| Packing group | III |
| Special Provisions | 8, 146, 173, 335, 441, IB3, T4, TP1, TP29 |
| DOT Marine Pollutant | M |
| Marine pollutant | Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl), 9, III, Marine pollutant |
| Emergency Response Guide Number | 171 |

TDG

| | |
|-----------------------------------|---|
| UN number or ID number | UN3082 |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Special Provisions | 16, 99 |
| Marine pollutant | Petroleum distillates. |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s.(Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl), 9, III |

IATA

| | |
|-----------------------------------|--|
| UN number or ID number | UN3082 |
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| IATA Technical Name | Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Environmental hazards | Yes |
| Special Provisions | A97, A158, A197, A215 |
| ERG Code | 9L |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl), 9, III |

IMDG

| | |
|-----------------------------------|--|
| UN number or ID number | UN3082 |
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Technical Name | Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Marine pollutant indicator | M |
| Marine pollutant name | Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl |
| Special Provisions | 274, 335, 375, 969 |
| EmS-No. | F-A S-F |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Petroleum distillates, Manganese, Tricarbonyl methylcyclopentadienyl), 9, III, Marine pollutant |

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Naphthalene 91-20-3 | 100 lb | X | X | X |

CAA (Clean Air Act)

This product contains the following substances which are regulated pollutants to the Clean Air Act (CAA).

| Chemical name | Hazardous air pollutants (HAPs) | Ozone-depleting substances (ODS) |
|---|---------------------------------|----------------------------------|
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | Present | - |
| Naphthalene 91-20-3 | Present | - |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|---|--------------------------|------------------------------------|---|
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | - | 100 lb | - |
| Naphthalene 91-20-3 | 100 lb | - | RQ 100 lb final RQ RQ 45.4 kg final RQ |

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name | California Proposition 65 |
|-----------------------|---------------------------|
| Naphthalene - 91-20-3 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Manganese, Tricarbonyl methylcyclopentadienyl 12108-13-3 | X | X | X |
| 2-Ethylhexan-1-ol | - | X | X |

| | | | |
|---------------------------------------|---|---|---|
| 104-76-7 | | | |
| Naphthalene 91-20-3 | X | X | X |
| Benzene, 1,2,4-trimethyl- 95-63-6 | X | X | X |
| Benzene, 1,3,5-trimethyl- 108-67-8 | - | X | - |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 3 Flammability 2 Instability 0 Special hazards -
HMIS Health hazards 3* Flammability 2 Physical hazards 0 Personal protection X
 Chronic Hazard Star Legend * = Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend**

| | |
|---------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe) |
| ADR | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe) |
| AIIC | Australian Inventory of Industrial Chemicals |
| ATE | Acute Toxicity Estimate |
| ASTM | American Society for the Testing of Materials |
| bar | Biological Reference Values for Chemical Compounds in the Work Area |
| BAT | Biological tolerance values for occupational exposure |
| BEL | Biological exposure limits |
| bw | Body weight |
| Ceiling | Maximum limit value |
| CMR | Carcinogen, Mutagen or Reproductive Toxicant |
| DOT | Department of Transportation (United States) |
| DSL | Domestic Substances List (Canada) |
| EmS | Emergency Schedule |
| ENCS | Existing and New Chemical Substances (Japan) |
| EPA | Environmental Protection Agency |
| GHS | Globally Harmonized System |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO | International Civil Aviation Organization |
| IECSC | Inventory of Existing Chemical Substances in China |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| ISO | International Organization for Standardization |
| KECI | Korean Existing Chemicals Inventory |
| LC50 | Lethal Concentration to 50% of a test population |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| n.o.s. | Not Otherwise Specified |

| | |
|---------|---|
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No Observed Adverse Effect Level |
| NOELR | No Observable Effect Loading Rate |
| NTP | National Toxicology Program (United States) |
| NZIoC | New Zealand Inventory of Chemicals |
| OECD | Organization for Economic Cooperation and Development |
| OEL | Occupational exposure limits |
| OSHA | Occupational Safety and Health Administration of the US Department of Labor |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances |
| PMT | Persistent, Mobile and Toxic |
| PPE | Personal protective equipment |
| QSAR | Quantitative Structure Activity Relationship |
| RID | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) |
| SADT | Self-Accelerating Decomposition Temperature |
| SAR | Structure-activity relationship |
| SARA | Superfund Amendments and Reauthorization Act |
| SDS | Safety Data Sheet |
| SL | Surface Limit |
| STEL | Short Term Exposure Limit |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| TCSI | Taiwan Chemical Substance Inventory |
| TDG | Transport of Dangerous Goods (Canada) |
| TSCA | Toxic Substances Control Act (United States) |
| TWA | Time-Weighted Average |
| UN | United Nations |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| vPvM | Very Persistent and Very Mobile |
| As | Allergenic substance |
| DS | Dermal Sensitizer |
| Ot | Ototoxicant |
| pOt | Ototoxicant - potential to cause hearing disorders |
| PS | Photosensitizer |
| RS | Respiratory Sensitizer |
| S | Sensitizer |
| poS | Sensitizer - capable of causing occupational asthma |
| Sa | Simple asphyxiant |
| Sd | Skin designation |
| pSd | Skin designation - potential for cutaneous absorption |
| Sdv | Skin designation - vacated |
| Sk | Skin notation |
| dSk | Skin notation - danger of cutaneous absorption |
| pSk | Skin notation - potential for cutaneous absorption |

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Disclaimer

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End of Safety Data Sheet