



SAFETY DATA SHEET

FOODSAFE® FMO 460

GEAR & FOOD MACHINERY OIL NSF H-1 ISO 460

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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|--------------------------------|---|
| Product Name: | FOODSAFE® FMO 460 |
| Trade name: | FOODSAFE® FMO 460 |
| Supplier contact information: | PETROCHEM, INC. 333 North Randall Road St. Charles, IL 60174 Tel: 630-513-6360 Fax: 630-513-8324 Email: info@petrochem1.com www.petrochem1.com |
| Emergency Contact Information: | CHEMTREC (800)-424-9300 International (703) 527-3887 |
| Chemical Family / Use: | Technical Grade, Food Grade Gear & Food Machinery Lubricant |
| Date Prepared: | 03/26/2015 |
| Revision Date/Version: | 06/01/2022 Rev. 3 |

2. HAZARDS IDENTIFICATION

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| 2.1 Classification of the substance or mixture | Not classified as hazardous. |
| Classification according to Regulation (EC) No.1272/2008 [CLP]: | Not Classified |
| Classification according to Directive 67/548/EEC or 1999/45/EC: | Not Classified |
| Adverse effects: | At high temperatures, vapors may be generated which may be considered hazardous at concentrations exceeding 5 mg/m ³ . |
| OSHA Regulatory Status | This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) |
| 2.2. Label Elements: | |
| NFPA Code: | Health-0, Flammability-1, Reactivity-0 |
| HMIS Code: | Health-0, Flammability-1, Reactivity-0 |
| 2.3 Other hazards: | These substances/mixtures do not meet the PBT/vPvB criteria of REACH, annex XIII. Prolonged/repetitive skin contact may cause skin defatting or dermatitis; ingestion may have laxative effect. No other significant health hazards identified. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS | EC No. | Weight % | HS Tariff Classification No. |
|---------------|-----------|-----------|----------|------------------------------|
| Mineral Oil | 8042-47-5 | 232-45-9 | 99% | 2710.00.4530 |
| Polybutene | 9003-29-6 | 500-004-7 | 1% | 3902.90.0010 |

Antioxidant, Antiwear, Antirust Additives

Petrochem, Inc.

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Member of the American Baking Society

4. FIRST AID MEASURES

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| 4.1 General Information | |
| <i>Ingestion:</i> | If uncomfortable or symptomatic, seek medical assistance promptly. |
| <i>Skin:</i> | Wash exposed area of skin with water. If burned by contact with hot material, cool material as quickly as possible with water. See a physician for burn treatment, irritation or allergic reaction. |
| <i>Inhalation:</i> | If adverse effects occur, remove to uncontaminated area. Get medical attention if symptoms persist. |
| <i>Eyes:</i> | Flush immediately with large amounts of water. If irritation occurs, call a physician |
| <i>Notes to Physician:</i> | Treatment based on sound judgment of physician and individual reactions of patients. |
| 4.2 Most important symptoms and effects, acute and delayed | |
| <i>Symptoms/injuries:</i> | High vapor concentration may induce headache, nausea, dizziness and respiratory irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. |

5. FIRE FIGHTING MEASURES

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| 5.1 Extinguishing media: | Dry chemical, carbon dioxide, foam, steam or water fog, agents approved for Class B hazards. |
| <i>Unsuitable extinguishing media:</i> | Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool. |
| 5.2 Special hazards: | |
| <i>Fire Hazard:</i> | May create dense smoke during combustion Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB). Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products. |
| 5.3 Advise for firefighters: | |
| <i>Firefighting instruction:</i> | May create dense smoke during combustion |
| <i>Firefighting protection:</i> | Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB). Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products. Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

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| 6.1 Personal precautions, protective equipment and emergency procedures | |
| <i>Personnel:</i> | Wear appropriate breathing apparatus, protective clothing gloves and eye/face protection. No smoking. Refer to section 8. |
| <i>Emergency procedures:</i> | Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. |
| 6.2 Environmental precautions | Prevent spills from entering sewers and public waters. Treat as oil spill. |
| 6.3 Containment/ Cleanup | |
| <i>Containment:</i> | Dike around spill; have oil-absorbent materials readily available. |
| <i>Cleanup:</i> | Remove mechanically or contain on an absorbent material such as dry sand or vermiculite and dispose of in accordance with current applicable regulations. |

7. HANDLING AND STORAGE

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| 7.1 Handling | No special requirements; observe good industrial hygiene practices. |
| 7.2 Storage | Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|------------------------|------------|--------------------------------|-----------------------|--|----------------------|--------------|
| 8.1 Control parameters | | | | | | |
| Limits: | CAS | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL | OSHA PEL-STEL | Units |
| Mineral Oil | 8042-47-5 | 5 mg/m ³ (oil mist) | n/a | 5 mg/m ³ (oil mist) (1989) (1971) | n/a | Ppm |

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| 8.2 Exposure Controls | Control airborne concentrations below the exposure guidelines. Provide local exhaust or general room ventilation to minimize vapor concentrations. Provide emergency eye wash fountains and safety showers. |
| <i>Eye:</i> | Wear protective goggles or face shield if splashing is possible. |
| <i>Skin:</i> | Wear protective gloves/clothing |
| <i>Inhalation:</i> | Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator to protect against mist. |
| <i>Environmental controls:</i> | Avoid release to the environment. Notify authorities if product enters sewers or public waters. |
| <i>Engineering Controls:</i> | None required under normal conditions. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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| Physical state | Liquid |
| Appearance | Colorless oily viscous liquid |
| Odor | Slight odor |
| Color | Clear |
| Odor threshold | No information available |

| Property | Values |
|---|----------------------------------|
| pH | Not applicable |
| Melting point/freezing point | Not applicable |
| Boiling pint | N/A |
| Flash point (Cleveland Open Cup) | 430°F (221°C) |
| Evaporation rate | No information available |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | No information available |
| Vapor pressure | < 1.0 mmHg @ 20°C (68°F) |
| Vapor density | >1 |
| Relative density | No information available |
| Specific Gravity | 0.855 - 0.894 @ 25°C/25°C (77°F) |

| Property | Values |
|---|--------------------------|
| Auto ignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity cSt @ 40°C | 460 |
| Dynamic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Other information | |
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |

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|-------------------------------------|---|
| Water solubility (20°C) | Negligible in water (below 0.1%); soluble in hydrocarbons |
| Solubility in other solvents | No information available |
| Pour Point: | < 32°F |

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|---------------------|--------------------------|
| Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

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|---------------------------------------|--|
| 10.1 Reactivity | Unknown |
| 10.2 Chemical Stability | Generally stable |
| 10.3 Hazardous reactions | Hazardous polymerization will not occur |
| 10.4 Conditions to avoid | Extreme heat; contact with chlorine, fluorine, and other strong oxidizers and acids. |
| 10.5 Incompatible materials | Chlorine, fluorine, and other strong oxidizers and acids |
| 10.6 Hazardous decomposition products | None identified |
| 10.7 Hazardous polymerization | Will not occur |

11. TOXICOLOGICAL INFORMATION

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|----------------------------------|---|
| 11.1 Toxicity | Data following is based on information from similar products, the ingredients, technical literature, and/or professional experience; Avatar Corporation does not do testing on animals. No component of these products present at levels > 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC). |
| <i>Dermal (rabbits):</i> | Testing not conducted |
| <i>Oral (rats):</i> | Testing not conducted |
| <i>Eye Irritation (rabbits):</i> | Testing not conducted |
| <i>Skin Irritation:</i> | Testing not conducted |

12. ECOLOGICAL INFORMATION

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|-----------------------------|---|
| 12.1 Ecological Information | No definitive information available on ecological impact if product is released to the environment. |
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13. DISPOSAL INFORMATION

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| 13.1 Waste treatment methods | Disposal must be in accordance with applicable federal, state, or local regulations. "Empty" drums should not be given to individuals. |
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14. TRANSPORT INFORMATION

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| 14.1 General Information | Not regulated by U.S. DOT, Canadian TODG, IMO/IMDG, ICAO/IATA, ADR/RID |
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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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|-----------------------------------|---|
| TSCA Inventory Status: | All components of this product are listed on the TSCA chemical inventory. |
| EA REACH | Pre-registered |
| DSL/NDSL | Complies |
| AICS | Complies |
| China | Complies |
| Korean (ECL) Inventory Status: | Listed on SCL |
| Japanese (MITI) Inventory Status: | Not Available |

| | |
|---------------------------------------|-------------------------------------|
| Philippines (PICCS) Inventory Status: | All components are listed on PICCS |
| EINECS Inventory Status: | All components are listed on EINECS |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECS - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

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| Federal Regulatory Status: | |
| <i>CERCLA Sections 102A/103 Hazardous Substances:</i> | Not reportable |
| <i>SARA Title III Section 302 Extremely Hazardous Substances</i> | Not regulated |
| <i>SARA Title III Sections 311/312 Hazardous Categorization:</i> | |
| <i>SARA Title III Section 313:</i> | No hazardous by OSHA under 29 CFR Part 1910.1200(d). |
| <i>FOOD CONTACT STATUS</i> | Compliant |
| <i>FDA 21 CFR 178.3570:</i> | Compliant |
| <i>USDA: H1 Status</i> | Compliant |
| <i>Kosher Certification</i> | Compliant |
| <i>California Proposition 65:</i> | NONE: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer; nor birth defects or other productive harm. |

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|---------------------------------|---------------------------|
| 15.2 Chemical Safety Assessment | No information available. |
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16. OTHER INFORMATION

Issue Date: 03/26/2015

Revision Date: 06/01/2022

Version: 3

Revision Note: Not applicable

General Disclaimer

This material safety data sheet and the information it contains are offered in good faith as accurate. We have reviewed any information contained in this data sheet, which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use product(s) safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.