Kawasaki

# MATERIAL SAFETY DATA SHEET

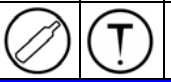
**KMC-230**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 2.0 | MSDS Revision Date: 09/01/2009

## 1. PRODUCT IDENTIFICATION

| | | |
|---|---|---|
| 1.1 | Product Name: | **KAWACHEM FOAM FILTER OIL, AEROSOL, 17oz** |
| 1.2 | Chemical Name: | **See ingredients listed in section 3** |
| 1.3 | Synonyms: | **None reported by the manufacturer** |
| 1.4 | Trade Names: | **Kal Gard Foam Filter Oil** |
| 1.5 | Product Use: | **Foam Filter Oil** |
| 1.6 | Manufacturer's Name: | **Gold Eagle** |
| 1.7 | Manufacturer's Address: | **4400 S. Kildare Blvd., Chicago IL, 60632-0432** |
| 1.8 | Business Phone: | **+1 (973) 376-4400** |
| 1.9 | Emergency Phone: | **CHEMTREC +1 (800) 434-9300/ +1 (703) 527-3887** |

**CHEMICAL RESPONSE CARD: 21**

| | |
|---|---|
| RESPONSE TEAM PPE: |  |
| WHMIS: |  |
| HEALTH: | 1 |
| FLAMMABILITY: | 3 |
| REACTIVITY: | 0 |
| PERSONAL PROTECTION: | B |

## 2. HAZARD IDENTIFICATION

2.1 Hazard Identification:

**This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). Harmful by inhalation. Possible risk of irreversible effects.**

2.2 Routes of Entry:

| Inhalation: | YES | Absorption: | YES | Ingestion: | NO |
|---|---|---|---|---|---|

2.3 Effects of Exposure:

**EYES: May cause irritation, redness and tearing. Vapors may be irritating to the eyes.**

**SKIN: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.**

**INGESTION: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested.**

**INHALATION: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.**

2.4 Symptoms of Exposure:

**EYES: Irritation, redness, swelling and tearing.**

**SKIN: Irritation, defatting, drying and cracking of skin.**

**INGESTION: Burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea.**

**INHALATION: Irritation to nose, throat and respiratory tract, dizziness, coughing, wheezing, weakness, fatigue, nausea, headache and possible unconsciousness.**

2.5 Acute Health Effects:

**EYES: May cause irritation, redness and tearing. Vapors may be irritating to the eyes. Risk of conjunctivitis**

**SKIN: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.**

**INGESTION: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested.**

**INHALATION: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.**

2.6 Chronic Health Effects:

**Prolonged or repeated skin contact may lead to dermatitis. Breathing vapors of high concentration may cause Central Nervous System depression.**

2.7 Target Organs:

**None reported by the manufacturer.**

**NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used. NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.**

## 3. COMPOSITION & INGREDIENTS

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m³) ACGIH ppm TLV | ACGIH ppm STEL | NOHSC ppm ES-TWA | NOHSC ppm ES-STEL | NOHSC ppm ES-PEAK | OSHA ppm PEL | OSHA ppm STEL | OSHA ppm IDLH | OTHER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PETROLEUM HYDROCARBON BASE STOCK | 64742-54-7 | PY8035501 | 265-157-1 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| HIGHLY REFINED BASE OIL | 64742-65-0 | PY8038501 | 265-169-7 | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| LUBE OIL ADDITIVE CONTAINING POLYBUTENE | 9003-29-6 | EM9032000 | NA | NA | NA | NA | NF | NF | NF | NA | NA | NA | |
| SOLVENT NAPTHA, LIGHT ALIPHATIC | 64742-89-8 | NA | 265-192-2 | ≥ 10 | 300 | NA | NF | NF | NF | 300 | NA | NA | |
| HYDROCARBON PROPELLANT | 68476-86-8 | NT8050000 | 270-705-8 | ≥ 0.1 | 400 | NA | 400 | NF | NF | 400 | 500 | NA | |

## 4. FIRST AID MEASURES

4.1 First Aid:

**EYES: Immediately flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation persists, repeat flushing. Get medical attention.**

**SKIN: Wash thoroughly with soap and water. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.**

**INGESTION: Do not include vomiting. Have conscious person rise out mouth with water, then drink 1 or 2 glasses of water. Never give an unconscious person anything to ingest. If vomiting spontaneously occurs, have victim lean forward with head down to avoid breathing in the vomitus (vapors from vomit) into the lungs. Rinse out mouth and administer more water. Guard against aspiration into the lungs. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal. Get immediate medical attention.**

**INHALATION: Using proper respiratory protection, remove affected person to fresh air. If breathing if difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.**

4.2 Medical Conditions Aggravated by Exposure:

**Health studies have shown that many hydrocarbons pose potential health risks which may vary from person to person.**

## 5. FIREFIGHTING MEASURES

5.1 Flashpoint & Method:

**Aerosol ; Level 3, (TCC)**

5.2 Autoignition Temperature:

**Not known**

5.3 Flammability Limits: Lower Explosive Limit (LEL): **ND** Upper Explosive Limit (UEL): **ND**

5.4 Fire & Explosion Hazards:

**This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. This material will release vapors well below ambient temperatures and are readily forms flammable mixtures with air exposed to an ignition source. It will burn in the open or be explosive in confined spaces. It vapors are heavier than air and may travel a long distances to a point of ignition, and then flash back. Alkenes/chlorine gas mixtures will produce explosions. Odor is not an adequate warning of potentially hazardous concentration in air, releases of these gases may cause a flammable atmosphere with explosion potential.**


5.5 Extinguishing Methods:

**Carbon dioxide, dry chemical powder, halogenated agent, stop gas flow.**

5.6 Firefighting Procedures:

**Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Allow fire to burn itself out, all equipment and surfaces exposed to the fire should be cooled with water to prevent over-heating, flash-backs, or explosions. Gas fires should not be extinguished, control fire until gas supply can be shut off. Remove containers from heat in order to avoid excessive pressure.**

## 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| 6.1 | Spills:<br>**When accidentally discharged, prevent the product from flowing. Contain spillage with sand or inert absorbent and arrange safe disposal. Prevent from fire and explosion risk. Eliminate any possible cause of fire. Absorb in earth or sand, skim on water surface. Elimination treatment will have to be made by an agreed collector.** |

## 7. HANDLING & STORAGE INFORMATION

| | |
|---|---|
| 7.1 | Work & Hygiene Practices:<br>**Wear gloves, glasses and self-contained mask. Warn about risk of vapor inhalation. Wash hands with water and soap immediately after handling then rinse in case of contact. When using, do not eat, drink or smoke.** |
| 7.2 | Storage & Handling:<br>**Use and keep away from flame, heat sources and functioning electrical devices. Use in a well ventilated area. Store in original packaging. Keep out of reach of children. Do not store in temperatures above 120°F. Keep out of direct sunlight.** |
| 7.3 | Special Precautions:<br>**Do not spray on a naked flame or any incandescent material. When using do not smoke. Avoid breathing vapors or spray mists. Avoid any contact.** |

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| | |
|---|---|
| 8.1 | Ventilation & Engineering Controls:<br>**Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans), whenever this product is used in a confined space, or is heated above ambient temperatures, or is agitated. . Do not eat, drink, or smoke while handling this product. Ensure that safety shower, hand washing sink and eye bath are near work area.** |
| 8.2 | Respiratory Protection:<br>**Use respiratory protection, an approved NIOSH/MSHA, (e.g., organic vapor-acid gas cartridge respirator). Use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member states, or Australia.** |
| 8.3 | Eye Protection:<br>**Face shield and goggles.** |
| 8.4 | Hand Protection:<br>**Chemical resistant or other impervious gloves. Wear boots, clothing with long sleeves, etc. as appropriate.** |
| 8.5 | Body Protection:<br>**Wear protective clothing (e.g., apron)** |

## 9. PHYSICAL & CHEMICAL PROPERTIES

| | | |
|---|---|---|
| 9.1 | Density: | **0.85** |
| 9.2 | Boiling Point: | **NA** |
| 9.3 | Melting Point: | **NA** |
| 9.4 | Evaporation Rate: | **NA** |
| 9.5 | Vapor Pressure: | **< 80 PSI @ 65°F** |
| 9.6 | Molecular Weight: | **NA** |
| 9.7 | Appearance & Color: | **Oil Spray** |
| 9.8 | Odor Threshold: | **NA** |
| 9.9 | Solubility: | **>0.500%** |
| 9.10 | pH | **NA** |
| 9.11 | Viscosity: | **NA** |
| 9.12 | Other Information: | **NA** |

## 10. STABILITY & REACTIVITY

| | |
|---|---|
| 10.1 | Stability:<br>**This product is chemically stable under normal conditions of storage and use.** |
| 10.2 | Hazardous Decomposition Products:<br>**None reported by the manufacturer.** |
| 10.3 | Hazardous Polymerization:<br>**Will not occur.** |
| 10.4 | Conditions to Avoid:<br>**Do not exposure this product to temperatures above 130°F, (54°C).** |
| 10.5 | Incompatible Substances:<br>**Strong oxidizing agents.** |

## 11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|---|
| 11.1 | Toxicity Data:<br>**None reported by the manufacturer.** | |
| 11.2 | Acute Toxicity:<br>**None reported by the manufacturer.** | |
| 11.3 | Chronic Toxicity:<br>**None reported by the manufacturer.** | |
| 11.4 | Suspected Carcinogen:<br>**No** | |
| 11.5 | Reproductive Toxicity: | |
| | Mutagenicity: | **This product is not reported to cause mutagenic effects in humans.** |
| | Embryotoxicity: | **This product is not reported to cause embryotoxic effects in humans.** |
| | Teratogenicity: | **This product is not reported to cause teratogenic effects in humans.** |
| | Reproductive Toxicity: | **This product is not reported to cause reproductive harm in humans.** |
| 11.6 | Irritancy of Product:<br>**See section 2.3** | |
| 11.7 | Biological Exposure Indices:<br>**NA** | |
| 11.8 | Physician Recommendations:<br>**Treat symptomatically.** | |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 | Environmental Stability:<br>**None reported by the manufacturer.** |
| 12.2 | Effect on Plants & Animals:<br>**None reported by the manufacturer.** |
| 12.3 | Effect on Aquatic Life:<br>**None reported by the manufacturer.** |

## 13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| 13.1 | Waste Disposal:<br>**Dispose of in a safe matter, in accordance with local and national regulations.** |
| 13.2 | Special Considerations:<br>**If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.** |

## 14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

| | |
|---|---|
| 14.1 | 49 CFR (GND):<br>**CONSUMER COMMODITY, ORM-D (x ≤ 5.0 L)** |
| 14.2 | IATA (AIR):<br>**CONSUMER COMMODITY, ORM-D (x ≤ 0.5 L)** |
| 14.3 | IMDG (OCN):<br>**UN1950, AEROSOLS, 2.1, LTD QTY (x ≤ 1.0 L)** |
| 14.4 | TDGR (CAN):<br>**MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (x ≤ 5.0 L)** |
| 14.5 | ADR/RID (EU):<br>**UN1950, AEROSOLS, 2.1, ADR, LTD QTY (x ≤ 1.0 L)** |
| 14.6 | SCT (MEX):<br>**UN1950, AEROSOLES, 2.1, CANTIDAD LIMITADA (x ≤ 1.0 L)** |
| 14.7 | ADGR (AUS):<br>**UN1950, AEROSOLS, 2.1, LTD QTY (x ≤ 1.0 L)** |


## 15. REGULATORY INFORMATION

| | |
|---|---|
| 15.1 | SARA Reporting Requirements:<br>**This product does not contain any substances subject to SARA reporting requirements.** |
| 15.2 | SARA Threshold Planning Quantity:<br>**NA** |
| 15.3 | TSCA Inventory Status:<br>**The components of this product are listed on the TSCA inventory.** |
| 15.4 | CERCLA Reportable Quantity (RQ):<br>**NA** |
| 15.5 | Other Federal Requirements:<br>**NA** |
| 15.6 | Other Canadian Regulations<br>**All chemical substances of this product are listed on the CEPA DSL/NDSL or are exempt from list requirements. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.** |
| 15.7 | State Regulatory Information:<br>**NA** |
| 15.8 | European Union 67/548/EEC and Australia NOHSC:2011 (2003) Requirements:<br>**The primary components of this product are listed in Annex I of EU Directive 67/548/EEC.**<br>**Propane: Highly Flammable (F+). R: 12 - Extremely flammable. S: 9-16-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.** |

## 16. OTHER INFORMATION

| | |
|---|---|
| 16.1 | Other Information:<br>**NA** |
| 16.2 | Terms & Definitions:<br>**Please see last page of this MSDS.** |
| 16.3 | Disclaimer:<br>This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Kawasaki's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. |
| 16.4 | Prepared for:<br>**Kawasaki Motors Corp., U.S.A.**<br>**9950 Jeronimo Road**<br>**Irvine, CA 92618 USA**<br>**Phone: +1 (949) 770-0400**<br>**Fax: +1 (949) 460-5625**<br>**http://www.kawasaki.com/** |
| 16.5 | Prepared by:<br>**ShipMate, Inc.**<br>**P.O. Box 787**<br>**Sisters, OR 97759-0787**<br>**Phone: +1 (310) 370-3600**<br>**Fax: +1 (310) 370-5700**<br>**E-mail: shipmate@shipmate.com**<br>**http://www.shipmate.com/** |

## DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

### GENERAL INFORMATION:

| | |
|---|---|
| **CAS No.** | Chemical Abstract Service Number |

### EXPOSURE LIMITS IN AIR:

| | |
|---|---|
| **ACGIH** | American Conference on Governmental Industrial Hygienists |
| **TLV** | Threshold Limit Value |
| **OSHA** | U.S. Occupational Safety and Health Administration |
| **PEL** | Permissible Exposure Limit |
| **IDLH** | Immediately Dangerous to Life and Health |

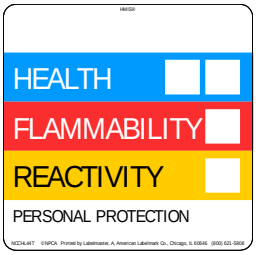
### FIRST AID MEASURES:

| | |
|---|---|
| **CPR** | Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body. |

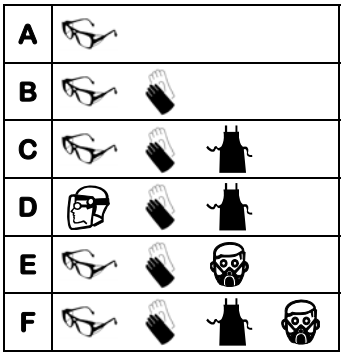
### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

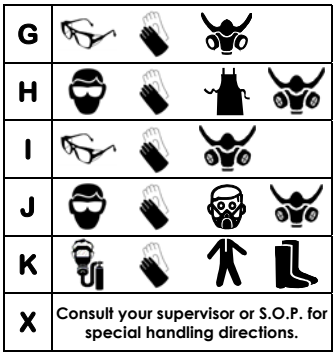
### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

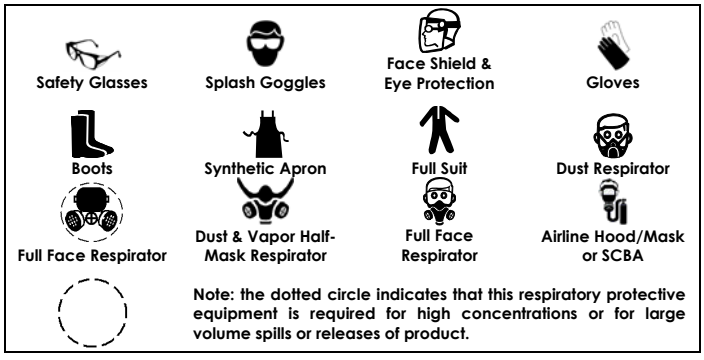
| | |
|---|---|
| **0** | Minimal Hazard |
| **1** | Slight Hazard |
| **2** | Moderate Hazard |
| **3** | Severe Hazard |
| **4** | Extreme Hazard |




### PERSONAL PROTECTION RATINGS:




### OTHER STANDARD ABBREVIATIONS:

| | |
|---|---|
| **NA** | Not Available |
| **NR** | No Results |
| **NE** | Not Established |
| **ND** | Not Determined |
| **ML** | Maximum Limit |
| **SCBA** | Self-Contained Breathing Apparatus |

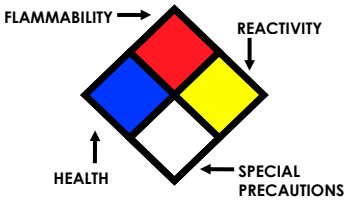
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### FLAMMABILITY LIMITS IN AIR:

| | |
|---|---|
| **Autoignition Temperature** | Minimum temperature required to initiate combustion in air with no other source of ignition |
| **LEL** | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |
| **UEL** | Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source |

### HAZARD RATINGS:

| | |
|---|---|
| **0** | Minimal Hazard |
| **1** | Slight Hazard |
| **2** | Moderate Hazard |
| **3** | Severe Hazard |
| **4** | Extreme Hazard |
| **ACD** | Acidic |
| **ALK** | Alkaline |
| **COR** | Corrosive |
| **~~W~~** | Use No Water |
| **OX** | Oxidizer |




### TOXICOLOGICAL INFORMATION:

| | |
|---|---|
| **$LD_{50}$** | Lethal Dose (solids & liquids) which kills 50% of the exposed animals s |
| **$LC_{50}$** | Lethal concentration (gases) which kills 50% of the exposed animal |
| **ppm** | Concentration expressed in parts of material per million parts |
| **$TD_{lo}$** | Lowest dose to cause a symptom |
| **TCLo** | Lowest concentration to cause a symptom |
| **$TD_{lo}$, $LD_{lo}$, & $LD_o$ or TC, $TC_o$, $LC_{lo}$, & $LC_o$** | Lowest dose (or concentration) to cause lethal or toxic effects |
| **IARC** | International Agency for Research on Cancer |
| **NTP** | National Toxicology Program |
| **RTECS** | Registry of Toxic Effects of Chemical Substances |
| **BCF** | Bioconcentration Factor |
| **$TL_m$** | Median threshold limit |
| **log $K_{OW}$ or log $K_{OC}$** | Coefficient of Oil/Water Distribution |

### REGULATORY INFORMATION:

| | |
|---|---|
| **WHMIS** | Canadian Workplace Hazardous Material Information System |
| **DOT** | U.S. Department of Transportation |
| **TC** | Transport Canada |
| **EPA** | U.S. Environmental Protection Agency |
| **DSL** | Canadian Domestic Substance List |
| **NDSL** | Canadian Non-Domestic Substance List |
| **NOHSC** | Australia National Occupational Health & Safety Code |
| **PSL** | Canadian Priority Substances List |
| **TSCA** | U.S. Toxic Substance Control Act |
| **EU** | European Union (European Union Directive 67/548/EEC) |

### EC INFORMATION:

| C | E | F | N | O | T+ | Xi | Xn |
|---|---|---|---|---|---|---|---|
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |