

Material Safety Data Sheet (MSDS)

Paramount Circulating Oil 460 (CR5007),

1. Chemical and Company Identification

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| Trade Name | Circulating Oil 460 |
| Product Code | CR5007 |
| Manufacturer/Supplier | Paramount Oil Trading FZE, PO Box 42826, Hamriya Free Zone, Sharjah – United Arab Emirates |
| Routine Enquiries | +971-6-7433099 |
| Fax | +971-6-7433094 |
| Emergency Contact (24 Hours) | +971 6 7433099 |
| Chemical Description | Lubricating Oils Circulating Oil |

2. Composition and Ingredients

| Components | CAS No. | Range in % |
|------------------------------------------------------------------|------------|------------|
| Mineral oil – Distillates petroleum, Hydrotreated Heavy paraffin | 64742-54-7 | > 75 |
| Residual oils | 64742-62-7 | <25 |
| Non hazardous material | | <1 |

3. Hazards Identification

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| Warning Statements | NO SIGNIFICANT HAZARD |
| Eyes | Not expected to cause eye irritation following short-term exposure |
| Oral | If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur |
| Inhalation | Breathing the vapor or mist at concentrations in air that exceed the ACGIH TLV can cause respiratory irritation or discomfort |
| Skin | Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the de fatting action of this material. Prolonged or repeated skin contact may be harmful |
| Long Term Toxic Effects | The base oil component(s) are not expected to be carcinogenic based on IARC Criteria. This product has not been listed as a whole for chronic health effects. See Section 11 for additional information |

4. First Aid Measures

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| Eyes | Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor |
| Skin | Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms' described in this MSDS occur. Launder contaminated clothing |
| Ingestion | If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on advice of medical personnel. If advice cannot be obtained, take person with container and label to nearest emergency treatment center. Never give anything by mouth to an unconscious person |
| Inhalation | If respiratory irritation or any signs or symptoms as described in this MSDS occur, mover the person to fresh air. If any of these effects continue, see a doctor |
| Advice to Doctor | None applicable |

5 Fire Fighting Measures

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| Ignition Temperature, deg C | Not determined |
| Flammable Limits (% by Volume) | Not determined |
| Flash Point, deg C | 292 C |
| Fire Extinguishing Agents | According to the US National Fire Protection Association Guide, use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop the leak |
| Explosion Hazards | For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency |

6 Accidental Release Measures

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| In case of Spill | Stop the source of the leak or release and contain spill if possible. Ventilate the area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water |
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7 Handling and Storage

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| Handling and Storage | Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Misuse of empty containers can be hazardous. DO NOT cut, weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place. |
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8 Exposure Control/Personal Protection

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| Eyes | No special eye protection is usually necessary |
| Skin | Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly. |
| Inhalation | Respiratory protection is normally not required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator |
| Ventilation | Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases |
| Exposure Limits | The ACGIH TLV for mineral oil mists is 5 mg/m ³ for a daily 8 – hour exposure. |

9 Physical and Chemical Properties

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative

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| Appearance and Odor | Yellow brownish liquid. |
| Boiling Point | Not determined |
| Vapor Pr (mmHG @ 25 deg C) | Not determined |
| Density(kg/l at 15 deg C) | 0.85 – 0.90 |
| Vapor Density (Air=1) | Not determined |
| Undiluted product's pH | Not applicable |
| Solubility in Water | Negligible |
| Percent Volatile by Volume | Not determined |
| Evaporation | Not determined |
| Viscosity | 30 -31 mm ² /s at 100 deg C (ISO VG 460) |

10 Stability and Reactivity

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| Hazardous Polymerizations | DO NOT OCCUR |
| Products of Combustion | Carbon monoxide, carbon dioxide, and aldehydes and ketenes may be formed. Combustion products of nitrogen and sulfur |
| Conditions to Avoid | Strong oxidizers as chlorates, nitrates, peroxides etc and heat |

11. Toxicological Information

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| General | This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, hydro cracking and hydro treating. These oils have not been listed in the US National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. |
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12. Ecological Information

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| Environmental Effects | No specific toxicology data on this product is available. This product may present environmental risks common to oil spills |
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13. Disposal Considerations

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| Waste Disposal | Place contaminated materials in disposable containers and dispose off in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material |
| Remarks | This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs. |

14. Transport Information

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| Transportation of Dangerous Goods | |
| UN Number | Not Applicable |
| Dangerous Goods Class | Not Applicable |
| Proper Shipping Name | Not applicable |
| Hazchem Code | Not applicable |
| Additional Information | None Determined |

15. Regulatory Information

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| Respirator Information | In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet either the above or local standard for approved respirators |
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16. Other Information – No specific notes on this product.

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| <p>To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the internet too so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued. Certain hazards are described herein; however, these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.</p> <p>Customers are encouraged to review this information, follow precautions and comply with all applicable laws and regulations regarding the use and disposal of this product. For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative. The final determination of the suitability of any material is the sole responsibility of the user.</p> |
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