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| **Fire Suppression Services Incorporated**  3802 South 2300 East, Salt Lake City. UT 84109  Ph (801) 277-6464 | | |
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|  | Z:\FSS\ArtWork\Logo\Logo.png |  |
|  | **Emergencies: 1-800 273-6465** |  |
| **PLACE** | | |
| **Name** | | |
| **ADDRESS** | | |
|  | **Material Safety** |  |
|  | **Data Sheets** |  |

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# Project

**Project name**

# General

**General Contractor name**

# List of Materials and their Safety Data Sheet/s

If any used they will be:

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| --- | --- | --- | --- | --- |
| Nitrogen Gas | N |  | Fire Stop (where required) |  |
|  |  |  | FS-One Fire Stop |  |
| Carbon Dioxide | CO2 |  | Potassium Carbonate | K2CO3 |
| Potassium Acetate | CH3COOK |  | Calcium Carbonate | CaCO3 |
| Iron/Steel | FE |  | Carbon Steel Pipe | FE |
| Plastic Pipe | CPVC |  | Flame Guard FS-5 PVC cement |  |
| Hydraulic Fluids |  |  | Spears Blue-75 Thread Sealant |  |

## Carbon Dioxide

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## Firestop Sealant FS1

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## Grabber

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## Nitrogen

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## Rectorseal Metacaulk

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## Steel Pipe

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### Blue -75. Thread Sealant

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## CPVC & PVC

### CPVC Pipe

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### Flame Guard FS-5 PVC cement

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# Hydraulic Fluids

Used in Genie and other AWP’s

## Mobil Dexron VI ATF

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| Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 1 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  MATERIAL SAFETY DATA SHEET  SECTION 1 PRODUCT AND COMPANY IDENTIFICATION  PRODUCT  Product Name: MOBIL DEXRON-VI ATF  Product Description: Base Oil and Additives  Product Code: 201530204010, 525121-00, 97AL60  Intended Use: Hydraulic/transmission fluid  COMPANY IDENTIFICATION  Supplier: EXXON MOBIL CORPORATION  3225 GALLOWS RD.  FAIRFAX, VA. 22037 USA  24 Hour Health Emergency  609-737-4411  Transportation Emergency Phone  800-424-9300  ExxonMobil Transportation No.  281-834-3296  Product Technical Information  800-662-4525, 800-947-9147  MSDS Internet Address  http://www.exxon.com, http://www.mobil.com  SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS  Reportable Hazardous Substance(s) or Complex Substance(s)  Name  CAS#  Concentration\*  METHACRYLATE COPOLYMER  CONFIDENTIAL  1 - 5%  \* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.  SECTION 3 HAZARDS IDENTIFICATION  This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).  POTENTIAL HEALTH EFFECTS  Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.  NFPA Hazard ID:  Health: 0  Flammability: 1  Reactivity: 0  HMIS Hazard ID:  Health: 0  Flammability: 1  Reactivity: 0  NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.  SECTION 4 FIRST AID MEASURES  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 2 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INHALATION  Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.  SKIN CONTACT  Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.  EYE CONTACT  Flush thoroughly with water. If irritation occurs, get medical assistance.  INGESTION  First aid is normally not required. Seek medical attention if discomfort occurs.  SECTION 5 FIRE FIGHTING MEASURES  EXTINGUISHING MEDIA  Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.  Inappropriate Extinguishing Media: Straight Streams of Water  FIRE FIGHTING  Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.  Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon  FLAMMABILITY PROPERTIES  Flash Point [Method]: >180C (356F) [ ASTM D-92]  Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0  Autoignition Temperature: N/D  SECTION 6 ACCIDENTAL RELEASE MEASURES  NOTIFICATION PROCEDURES  In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 3 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  National Response Center can be reached at (800)424-8802.  SPILL MANAGEMENT  Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.  Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.  Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.  ENVIRONMENTAL PRECAUTIONS  Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.  SECTION 7 HANDLING AND STORAGE  HANDLING  Prevent small spills and leakage to avoid slip hazard.  Static Accumulator: This material is a static accumulator.  STORAGE  Do not store in open or unlabelled containers.  SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION  Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.  NOTE: Limits/standards shown for guidance only. Follow applicable regulations.  ENGINEERING CONTROLS  The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:  No special requirements under ordinary conditions of use and with adequate ventilation.  PERSONAL PROTECTION  Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 4 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  with this material, as provided below, is based upon intended, normal usage.  Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:  No special requirements under ordinary conditions of use and with adequate ventilation.  For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.  Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:  No protection is ordinarily required under normal conditions of use.  Eye Protection: If contact is likely, safety glasses with side shields are recommended.  Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:  No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.  Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.  ENVIRONMENTAL CONTROLS  See Sections 6, 7, 12, 13.  SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES  Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.  GENERAL INFORMATION  Physical State: Liquid  Color: Red  Odor: Characteristic  Odor Threshold: N/D  IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION  Relative Density (at 15 C ): 0.846  Flash Point [Method]: >180C (356F) [ ASTM D-92]  Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0  Autoignition Temperature: N/D  Boiling Point / Range: > 316C (600F)  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 5 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vapor Density (Air = 1): > 2 at 101 kPa  Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C  Evaporation Rate (n-butyl acetate = 1): N/D  pH: N/A  Log Pow (n-Octanol/Water Partition Coefficient): > 3.5  Solubility in Water: Negligible  Viscosity: 30 cSt (30 mm2/sec ) at 40 C | 5.9 cSt (5.9 mm2/sec) at 100C  Oxidizing Properties: See Sections 3, 15, 16.  OTHER INFORMATION  Freezing Point: N/D  Melting Point: N/A  Pour Point: -51°C (-60°F)  DMSO Extract (mineral oil only), IP-346: < 3 %wt  SECTION 10 STABILITY AND REACTIVITY  STABILITY: Material is stable under normal conditions.  CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.  MATERIALS TO AVOID: Strong oxidizers  HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.  HAZARDOUS POLYMERIZATION: Will not occur.  SECTION 11 TOXICOLOGICAL INFORMATION  ACUTE TOXICITY  Route of Exposure  Conclusion / Remarks  Inhalation  Toxicity (Rat): LC50 > 5000 mg/m3  Minimally Toxic. Based on test data for structurally similar materials.  Irritation: No end point data.  Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.  Ingestion  Toxicity (Rat): LD50 > 5000 mg/kg  Minimally Toxic. Based on test data for structurally similar materials.  Skin  Toxicity (Rabbit): LD50 > 5000 mg/kg  Minimally Toxic. Based on test data for structurally similar materials.  Irritation (Rabbit): Data available.  Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.  Eye  Irritation (Rabbit): Data available.  May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.  CHRONIC/OTHER EFFECTS  Contains:  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 6 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.  Additional information is available by request.  The following ingredients are cited on the lists below: None.  --REGULATORY LISTS SEARCHED--  1 = NTP CARC  3 = IARC 1  5 = IARC 2B  2 = NTP SUS  4 = IARC 2A  6 = OSHA CARC  SECTION 12 ECOLOGICAL INFORMATION  The information given is based on data available for the material, the components of the material, and similar materials.  ECOTOXICITY  Material -- Not expected to be harmful to aquatic organisms.  MOBILITY  Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.  PERSISTENCE AND DEGRADABILITY  Biodegradation:  Base oil component -- Expected to be inherently biodegradable  BIOACCUMULATION POTENTIAL  Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.  SECTION 13 DISPOSAL CONSIDERATIONS  Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.  DISPOSAL RECOMMENDATIONS  Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.  REGULATORY DISPOSAL INFORMATION  RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 7 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  product may be regulated.  Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.  SECTION 14 TRANSPORT INFORMATION  LAND (DOT) : Not Regulated for Land Transport  LAND (TDG) : Not Regulated for Land Transport  SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code  AIR (IATA) : Not Regulated for Air Transport  SECTION 15 REGULATORY INFORMATION  OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.  NATIONAL CHEMICAL INVENTORY LISTING: IECSC, DSL, EINECS, KECI, PICCS, TSCA  Special Cases:  Inventory  Status  AICS  Restrictions Apply  ENCS  Restrictions Apply  EPCRA: This material contains no extremely hazardous substances.  CWA / OPA: This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.  SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.  SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.  The Following Ingredients are Cited on the Lists Below: None.  --REGULATORY LISTS SEARCHED--  1 = ACGIH ALL  6 = TSCA 5a2  11 = CA P65 REPRO  16 = MN RTK  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008  Page 8 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2 = ACGIH A1  7 = TSCA 5e  12 = CA RTK  17 = NJ RTK  3 = ACGIH A2  8 = TSCA 6  13 = IL RTK  18 = PA RTK  4 = OSHA Z  9 = TSCA 12b  14 = LA RTK  19 = RI RTK  5 = TSCA 4  10 = CA P65 CARC  15 = MI 293  Code key: CARC=Carcinogen; REPRO=Reproductive  SECTION 16 OTHER INFORMATION  N/D = Not determined, N/A = Not applicable  THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:  Revision Changes:  Section 06: Notification Procedures - Header was modified.  Section 13: Empty Container Warning was modified.  Section 08: Hand Protection was modified.  Section 11: Dermal Lethality Test Data was modified.  Section 11: Oral Lethality Test Data was modified.  Section 11: Inhalation Lethality Test Comment was modified.  Section 05: Hazardous Combustion Products was modified.  Section 15: List Citation Table - Header was modified.  Section 15: National Chemical Inventory Listing was modified.  Section 16: Code to MHCs was modified.  Section 06: Notification Procedures was modified.  Section 01: Company Contact Methods Sorted by Priority was modified.  Section 15: CWA - Header was added.  Section 15: CWA was added.  Section 15: Special Cases - Header was added.  Section 15: Special Cases Table was added.  Section 15: Inventory - Header was added.  Section 15: Status - Header was added.  Section 15: TSCA Class 2 Statement was deleted.  -------------------------------------------------------------------------------------------------------------------------------------------  ------------------------------------------------------------------------------------------------------------------------------------------------  The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.  -----------------------------------------------------------------------------------------------------------------  Internal Use Only  MHC: 0B, 0B, 0, 0, 0, 0 PPEC: A DGN: 7076112XUS (1011830)  ------------------------------------------------------------------------------------------------------------------  Product Name: MOBIL DEXRON-VI ATF  Revision Date: 17Oct2008 Page 9 of 9  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Copyright 2002 Exxon Mobil Corporation, All rights reserved |

## Rykon Premium

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| **Material Safety Data Sheet**  **SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**  **Chevron Rykon® Premium Oil**  **Product Use:** Hydraulic Oil  **Product Number(s):** CPS232950, CPS232952, CPS255678, CPS255679  **Synonyms:** Chevron Rykon® Premium Oil ISO 100, Chevron Rykon® Premium Oil ISO 32, Chevron Rykon® Premium Oil ISO 46, Chevron Rykon® Premium  Oil ISO 68  **Company Identification**  ChevronTexaco Global Lubricants  6001 Bollinger Canyon Rd.  San Ramon, CA 94583  United States of America  www.chevron-lubricants.com  **Transportation Emergency Response**  CHEMTREC: (800) 424-9300 or (703) 527-3887  **Health Emergency**  ChevronTexaco Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623  **Product Information**  email : lubemsds@chevrontexaco.com  Product Information: (800) LUBE TEK  MSDS Requests: (800) 414-6737  **SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS**  **COMPONENTS CAS NUMBER AMOUNT**  Highly refined mineral oil (C15 - C50) Mixture 80 - 100 %weight  **SECTION 3 HAZARDS IDENTIFICATION**  **IMMEDIATE HEALTH EFFECTS**  **Eye:** Not expected to cause prolonged or significant eye irritation.  **Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.  High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention  at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement  or amputation of the affected part.  **Ingestion:** Not expected to be harmful if swallowed.  **Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following  prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may  include coughing and difficulty breathing.  **SECTION 4 FIRST AID MEASURES**  **Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.  **Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and  water. Discard contaminated clothing and shoes or thoroughly clean before reuse.  **Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.  **Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical  attention if coughing or respiratory discomfort occurs.  **Note to Physicians:** In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small,  sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within  24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.  **SECTION 5 FIRE FIGHTING MEASURES**  Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights,  sparks, or electric arcs).  **FIRE CLASSIFICATION:**  OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.  **NFPA RATINGS:** Health: 0 Flammability: 1 Reactivity: 0  **Material Safety Data Sheet**  **FLAMMABLE PROPERTIES:**  **Flashpoint:** (Cleveland Open Cup) 144 °C (291 °F) (Min)  **Autoignition:** No Data Available  **Flammability (Explosive) Limits (% by volume in air):** Lower: Not Applicable Upper: Not Applicable  **EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.  **PROTECTION OF FIRE FIGHTERS:**  **Fire Fighting Instructions:** This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire  space without proper protective equipment, including self-contained breathing apparatus.  **Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon  dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.  **SECTION 6 ACCIDENTAL RELEASE MEASURES**  **Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material.  **Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.  Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying noncombustible  absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers  and dispose of in a manner consistent with applicable regulations.  **Reporting:** Report spills to local authorities and/or the U.S. Coast Guard’s National Response Center at (800) 424-8802 as appropriate or required.  **SECTION 7 HANDLING AND STORAGE**  **Precautionary Measures:** DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas.  Keep container closed.  **General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.  **Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and  grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic  charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing,  agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106,  ‘Flammable and Combustible Liquids’, National Fire Protection Association (NFPA 77, ‘Recommended Practice on Static Electricity’, and/or the American  Petroleum Institute (API) Recommended Practice 2003, ‘Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents’.  **Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers  retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers  to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely  drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.  **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**  **GENERAL CONSIDERATIONS:**  Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing  engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels  of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied  with the equipment since protection is usually provided for a limited time or under certain circumstances.  **ENGINEERING CONTROLS:**  Use in a well-ventilated area.  **PERSONAL PROTECTIVE EQUIPMENT**  **Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.  **Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted,  physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield,  Viton.  **Respiratory Protection:** No respiratory protection is normally required.  If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an  approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.  Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.  **Occupational Exposure Limits:**  **Component Agency TWA STEL Ceiling Notation**  Highly refined mineral oil (C15 - C50) ACGIH 5 mg/m3 10 mg/m3 —  Highly refined mineral oil (C15 - C50) OSHA Z-1 5 mg/m3 — —  **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**  Attention: the data below are typical values and do not constitute a specification.  **Color:** Colorless to yellow  **Physical State:** Liquid  **Odor:** Petroleum odor  **pH:** Not Applicable  **Vapor Pressure:** <0.01 mmHg @ 37.8 °C (100 °F)  **Vapor Density (Air = 1):** >1  **Boiling Point:** >260°C (500°F)  **Solubility:** Soluble in hydrocarbons; insoluble in water  **Freezing Point:** Not Applicable  **Specific Gravity:** 0.86 - 0.87 @ 15.6°C (60.1°F) / 15.6°C (60.1°F)  **Viscosity:** 13.5 cSt @ 40°C (104°F) (Min)  **SECTION 10 STABILITY AND REACTIVITY**  **Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  **Incompatibility With Other Materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.  **Hazardous Decomposition Products:** None known (None expected)  **Hazardous Polymerization:** Hazardous polymerization will not occur.  **SECTION 11 TOXICOLOGICAL INFORMATION**  **IMMEDIATE HEALTH EFFECTS**  **Eye Irritation:** The eye irritation hazard is based on evaluation of data for similar materials or product components.  **Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.  **Skin Sensitization:** No product toxicology data available.  **Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.  **Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.  **Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.  **ADDITIONAL TOXICOLOGY INFORMATION:**  This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe  hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed  in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic  to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified  by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or  confirmed animal carcinogen with unknown relevance to humans (A3).  **SECTION 12 ECOLOGICAL INFORMATION**  **ECOTOXICITY**  The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all  bodies of water.  **ENVIRONMENTAL FATE**  This material is not expected to be readily biodegradable.  **SECTION 13 DISPOSAL CONSIDERATIONS**  Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in  containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for  approved disposal or recycling methods.  **SECTION 14 TRANSPORT INFORMATION**  The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements  (e.g., technical name) and mode-specific or quantity-specific shipping requirements.  **DOT Shipping Description:** PETROLEUM LUBRICATING OIL  **IMO/IMDG Shipping Description:** PETROLEUM LUBRICATING OIL  **ICAO/IATA Shipping Description:** PETROLEUM LUBRICATING OIL  **SECTION 15 REGULATORY INFORMATION**  **EPCRA 311/312 CATEGORIES:** 1. Immediate (Acute) Health Effects: NO  2. Delayed (Chronic) Health Effects: NO  3. Fire Hazard: NO  4. Sudden Release of Pressure Hazard: NO  5. Reactivity Hazard: NO  REGULATORY LISTS SEARCHED:  01-1=IARC Group 1 03=EPCRA 313  01-2A=IARC Group 2A 04=CA Proposition 65  01-2B=IARC Group 2B 05=MA RTK  02=NTP Carcinogen 06=NJ RTK  07=PA RTK  No components of this material were found on the regulatory lists above.  **CHEMICAL INVENTORIES:**  All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), KECI  (Korea), PICCS (Philippines), TSCA (United States).  **NEW JERSEY RTK CLASSIFICATION:**  Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Hydraulic  oil)  **WHMIS CLASSIFICATION:**  This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.  **SECTION 16 OTHER INFORMATION**  **NFPA RATINGS:** Health: 0 Flammability: 1 Reactivity: 0  **HMIS RATINGS:** Health: 1 Flammability: 1 Reactivity: 0  (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are  obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association  (for HMIS ratings).  **LABEL RECOMMENDATION:**  Label Category : INDUSTRIAL OIL 1  **REVISION STATEMENT:** This revision updates the following sections of this Material Safety Data Sheet: 1-16  **Revision Date:** 09/14/2004  **ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**  TLV - Threshold Limit Value TWA - Time Weighted Average  STEL - Short-term Exposure Limit PEL - Permissible Exposure Limit  CAS - Chemical Abstract Service Number  ACGIH - American Conference of Government Industrial Hygienists IMO/IMDG - International Maritime Dangerous Goods Code  API - American Petroleum Institute MSDS - Material Safety Data Sheet  CVX - ChevronTexaco NFPA - National Fire Protection Association (USA)  DOT - Department of Transportation (USA) NTP - National Toxicology Program (USA)  IARC - International Agency for Research on Cancer OSHA - Occupational Safety and Health Administration  Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the ChevronTexaco Energy  Research & Technology Company, 100 Chevron Way, Richmond, California 94802.  **The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be**  **applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may**  **suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition**  **that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.** |