

Safety Data Sheet

CRAFCO 150

SECTION 1. MATERIAL AND COMPANY IDENTIFICATION

PRODUCT NAME: CRAFCO 150

VERSION: MAY 2020

MANUFACTURER: PACIFIC FUNCTIONAL FLUIDS, LLC
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TACOMA, WA 98421-3607

CUSTOMER SERVICE: 253-284-4302 / 888-586-7295

EMERGENCY HEALTH AND SAFETY NUMBER: CHEMTREC: 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

WARNING



SIGNAL WORD: DANGER

HAZARD STATEMENTS

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

PRECAUTIONARY STATEMENTS

P301 + 310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. RINSE MOUTH.

P331 DO NOT INDUCE VOMITING.

P405 STORE LOCKED UP.

HEALTH HAZARDS: INHALATION (BREATHING):

THIS PRODUCT IS NOT LIKELY TO PRESENT AN INHALATION HAZARD AT NORMAL TEMPERATURES. HOWEVER, VAPOR OR MIST (GENERATED AT HIGH TEMPERATURES ONLY) MAY RESULT IN IRRITATION OF THE UPPER RESPIRATORY TRACT. MOVE AWAY FROM SOURCE TO FRESH AIR AND SEEK MEDICAL ATTENTION.

CRAFCO 150

EYES: MAY CAUSE IRRITATION. USE OF SAFETY GLASSES OR GOGGLES SUGGESTED.

SKIN: PROLONGED CONTACT MAY RESULT IN SLIGHT IRRITATION. GOOD INDUSTRIAL HYGIENE PRACTICE SUGGESTS THE USE OF NITRILE GLOVES AS PART OF GENERAL PPE.

INGESTION: DO NOT SWALLOW. DO NOT INDUCE VOMITING. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. RINSE MOUTH.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS	COMPONENT	PERCENT
64742-58-1	LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT	100%

SECTION 4. FIRST AID MEASURES

INHALATION (BREATHING): FIRST AID NOT NORMALLY REQUIRED, BUT IF BREATHING DIFFICULTIES DEVELOP, MOVE VICTIM TO FRESH AIR AND GIVE OXYGEN. OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSON. SEEK MEDICAL ATTENTION.

EYES: IF IRRITATION OR REDNESS FROM EXPOSURE DEVELOPS, CHECK FOR CONTACTS AND REMOVE BEFORE FLUSHING WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN WITH SOAP AND WATER, OR A WATERLESS HAND CLEANER. IF IRRITATION OR REDNESS OCCURS, SEEK MEDICAL ATTENTION.

INGESTION (SWALLOWING): DO NOT SWALLOW. DO NOT INDUCE VOMITING. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. RINSE MOUTH.

NOTE TO PHYSICIAN: ACUTE ASPIRATIONS OF LARGE AMOUNTS OF OIL LADEN MATERIAL MAY PRODUCE A SERIOUS ASPIRATION PNEUMONIA. PATIENTS WHO ASPIRATE THESE OILS SHOULD BE FOLLOWED FOR THE DEVELOPMENT OF LONG TERM SEQUELAE. TREATMENT MAY VARY WITH CONDITION OF VICTIM AND SPECIFICS OF INCIDENT.

SECTION 5. FIREFIGHTING MEASURES

NFPA RATING: **HEALTH: 0** **FIRE: 1** **REACTIVITY: 0**

HAZARD SCALE: 0 = MINIMAL; 1 = SLIGHT; 2 = MODERATE; 3 = SERIOUS; 4 = SEVERE;

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR WATER SPRAY IS RECOMMENDED. WATER OR FOAM MAY CAUSE FROTHING OF MATERIALS HEATED ABOVE 212°F/100°C. CARBON DIOXIDE CAN DISPLACE OXYGEN. USE CAUTION WHEN APPLYING CARBON DIOXIDE IN CONFINED SPACES. SIMULTANEOUS USE OF FOAM AND WATER ON THE SAME SURFACE IS TO BE AVOIDED AS WATER DESTROYS THE FOAM.

CONDITIONS OF FLAMMABILITY, COMBUSTION: PRODUCT MAY BURN, BUT DOES NOT IGNITE READILY. COMBUSTION MAY YIELD SMOKE, CARBON MONOXIDE, AND OTHER PRODUCTS OF INCOMPLETE COMBUSTION. OXIDES OF SULFUR, NITROGEN, OR PHOSPHORUS MAY ALSO BE FORMED. HEATED CONTAINERS MAY RUPTURE.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: EMERGENCY RESPONDER SHOULD WEAR PROTECTIVE CLOTHING. DO NOT ENTER CONFINED SPACES UNLESS WEARING A SELF-CONTAINED BREATHING APPARATUS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

REMOVE ALL IGNITION SOURCES. STOP SPILL/RELEASE IF CAN BE DONE SAFELY. PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED DRAINAGE SYSTEMS, AND NATURAL WATERWAYS. CONTAIN SPILL AS A LIQUID FOR POSSIBLE RECOVERY, OR USE COMPATIBLE SORBENT MATERIAL AND SHOVEL WITH A SPARK PROOF TOOL INTO A SEALABLE CONTAINER. USE WATER SPARINGLY TO MINIMIZE ENVIRONMENTAL CONTAMINATION AND REDUCE DISPOSAL REQUIREMENTS. IF SPILL OCCURS ON WATER NOTIFY APPROPRIATE AUTHORITIES. ANY SPILLS OCCURRING ON NAVIGABLE WATERWAY OR SHORELINE THAT CAUSE A SHEEN OR DISCOLORATION ON THE SURFACE NOTIFY LOCAL AND /OR FEDERAL AUTHORITIES. IN CASE OF SOIL CONTAMINATION, REMOVE CONTAMINATED SOIL AND DISPOSE ACCORDING TO LOCAL REGULATIONS.

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES: KEEP AWAY FROM SPARKS AND FLAMES. WASH THOROUGHLY AFTER HANDLING. USE GOOD PERSONAL HYGIENE AND WEAR APPROPRIATE PERSONAL PROTECTION EQUIPMENT. USE CLEAN TOOLS AND EXPLOSION PROOF EQUIPMENT. WHEN TRANSFERRING PRODUCT, METAL CONTAINERS, INCLUDING RAILCARS AND TANK TRUCKS, SHOULD BE GROUNDED AND BONDED. WHILE THIS PRODUCT DOES NOT POSE AN INHALATION HAZARD UNDER NORMAL CONDITIONS, AVOID BREATHING VAPOR AND MIST. USE IN WELL VENTILATED AREAS. AVOID CONTACT WITH EYES, SKIN, CLOTHING, AND SHOES. DO NOT WALK THRU ANY SPILLED OIL AS OIL IS SLIPPERY ON FLOORS.

SHIPPING AND STORAGE: KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE AND DURING TRANSPORT. STORE CONTAINERS IN COOL, DRY AREAS AWAY FROM HEAT SOURCES. DO NOT PRESSURIZE, CUT, GRIND, WELD, DRILL, BRAZE, SOLDER, OR PUNCTURE CONTAINERS. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE AND CAN BE DANGEROUS.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**COMPONENT EXPOSURE LIMITS:**

OIL MIST (IF GENERATED): ACGIH 8 HOUR TLV-MG/M3,
 ACCIDENTAL EXPOSURE TO HIGH CONCENTRATIONS OF MISTS OR VAPORS GENERATED DURING USE MAY CAUSE IRRITATION OF THE EYES, NOSE, AND RESPIRATORY TRACT.

ENGINEERING CONTROLS:

PROVIDE GENERAL VENTILATION NEEDED TO MAINTAIN AIRBORNE CONCENTRATION BELOW ESTABLISHED EXPOSURE LIMITS. WHEN GENERAL VENTILATION IS UNAVOIDABLE, ADDITIONAL ENGINEERING CONTROLS MAY BE REQUIRED.

PERSONAL PROTECTIVE EQUIPMENT; RESPIRATORY:

WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURE ABOVE THE EXPOSURE LIMITS SET, USE OF A NIOSH CERTIFIED P OR R SERIES PARTICULATE FILTER AND ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. AIR PURIFYING RESPIRATORS PROVIDE LIMITED PROTECTION. SELECTION AND USE OF RESPIRATORY PROTECTIVE EQUIPMENT SHOULD BE IN ACCORDANCE WITH OSHA 29 CFR 1910.134, AND ANSI Z88.2. CONSULT A QUALIFIED INDUSTRIAL HYGIENIST, SAFETY PROFESSIONAL, OR ENGINEERING PROFESSIONAL FOR SPECIFIC SELECTION GUIDELINES.

PERSONAL PROTECTIVE EQUIPMENT; EYES/FACE:

GOOD INDUSTRIAL HYGIENE PRACTICE SUGGESTS THE USE OF SAFETY GLASSES/FACE SHIELDS THAT MEET OR EXCEEDS ANSI Z.87.1 WHENEVER WORKING WITH CHEMICALS. USE OF CONTACTS NOT RECOMMENDED.

PERSONAL PROTECTIVE EQUIPMENT; SKIN/HAND:

GOOD INDUSTRIAL HYGIENE PRACTICE SUGGESTS THE USE OF CHEMICAL IMPERVIOUS GLOVES OR OTHER APPROPRIATE SKIN PROTECTION WHEN WORKING WITH CHEMICALS. NITRILE IS SUGGESTED PROTECTIVE MATERIAL. TO AVOID PROLONGED OR REPEATED CONTACT WEAR APPROPRIATE CHEMICAL RESISTANT FACE SHIELD, BOOTS, APRON, WHOLE BODY SUITS, OR OTHER PROTECTIVE CLOTHING.

PERSONAL PROTECTIVE EQUIPMENT; PERSONAL HYGIENE:

USE GOOD PERSONAL HYGIENE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING, DRINKING, OR USING TOBACCO PRODUCTS. CLEAN CONTAMINATED CLOTHING, SHOES, AND PROTECTIVE EQUIPMENT BEFORE REUSING. DISCARD LEATHER ARTICLES SATURATED WITH PRODUCT.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: LIQUID - CLEAR

ODOR: LIGHT PETROLEUM

ODOR THRESHOLD: NO DATA

AUTOIGNITION TEMPERATURE: NO DATA

DECOMPOSITION TEMPERATURE: NO DATA

WATER SOLUBILITY: INSOLUBLE

SPECIFIC GRAVITY: (WATER=1) 0.85
 (APPROXIMATE WATER = 1)

VISCOSITY: 27.5 CST @ 40°C

POUR POINT: -12°C

BOILING POINT: >300°C

FLASH POINT: >200°C

VOLATILE ORGANIC COMPOUNDS

AS REGULATED: NEGLIGIBLE PER 40 CFR PART 41.100

EVAPORATION RATE: NO DATA

FREEZING POINT: NO DATA

MELTING POINT: NO DATA

LOWER EXPLOSIVE LIMIT: NO DATA

UPPER EXPLOSIVE LIMIT: NO DATA

SOLUBILITY (OTHER): NO DATA

BOLING POINT RANGE: NO DATA

VAPOR PRESSURE: <0.1 MM HG @ 68°F (20°C)

VAPOR DENSITY (AIR = 1): NO DATA

DENSITY: 0.850 @ 15.6°C

PH: NO DATA

FLAMMABILITY: NO DATA

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL TEMPERATURES AND ANTICIPATED CONDITIONS OF USE. AVOID SPARKS OR FLAMES.

INCOMPATIBILITY: INCOMPATIBLE WITH STRONG OXIDIZING AND REDUCING AGENTS.

REACTIVITY: NO CHEMICAL REACTIVITY KNOWN TO OCCUR.

HAZARDOUS REACTIONS: HAZARDOUS REACTIONS NOT KNOWN TO OCCUR UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: AVOID SPARKS, FLAMES, AND INCOMPATIBLE MATERIALS. AVOID EXTENDED EXPOSURE TO HIGH TEMPERATURES AS THIS CAN CAUSE DECOMPOSITION.

SECTION 11. TOXICOLOGICAL INFORMATION

INHALATION: UNLIKELY TO BE HARMFUL. BUT, INHALING SMALL TO LARGE AMOUNTS REPEATEDLY COULD CAUSE MODERATE TO SEVERE DAMAGE TO LUNG TISSUE. >5 MG/L (MIST, ESTIMATED).

INGESTION: UNLIKELY TO BE HARMFUL. MAY CAUSE TRANSIENT GASTROINTESTINAL EFFECTS BUT UNLIKELY TO CAUSE SYSTEMIC TOXICITY. ORAL LD50 MORE THAN 5 G/KG (BASED ON DATA FROM COMPONENTS OR SIMILAR MATERIALS).

DERMAL: NOT EXPECTED TO BE IRRITATING UNDER NORMAL HANDLING CONDITIONS WITH PROPER PPE USE. CONTACT MAY REMOVE SKIN OILS. REPEATED UNPROTECTED AND PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION OR DRYNESS. NO INFORMATION ON SKIN SENSITIZATION AVAILABLE.

EYE CONTACT: NOT EXPECTED TO BE IRRITATING UNDER NORMAL HANDLING IF CONDITIONS WHEN USING PROPER PPE. POSSIBLE IRRITATION AND DISCOMFORT IF EYES ARE REPEATEDLY EXPOSED. UNLIKELY TO CAUSE PERMANENT INJURY TO EYE TISSUE.

SPECIFIC ORGAN TOXICITY/SINGLE OR REPEATED EXPOSURE: NO INFORMATION AVAILABLE ON MIXTURE, HOWEVER NONE OF THE COMPONENTS HAVE BEEN CLASSIFIED FOR TARGET ORGAN TOXICITY, OR ARE BELOW THE CONCENTRATION THRESHOLD FOR CLASSIFICATION.

CARCINOGENICITY: NO INFORMATION AVAILABLE ON MIXTURE, HOWEVER NONE OF THE COMPONENTS HAVE BEEN CLASSIFIED FOR TARGET ORGAN TOXICITY, OR ARE BELOW THE CONCENTRATION THRESHOLD FOR CLASSIFICATION.

INFORMATION ON TOXICOLOGICAL EFFECTS OF COMPONENTS:

LUBRICATING OILS, PETROLEUM, HYDRO TREATED SPENT

CARCINOGENICITY: THIS OIL HAS BEEN HIGHLY REFINED BY A VARIETY OF PROCESSES TO REDUCE AROMATICS AND IMPROVE PERFORMANCE CHARACTERISTICS. IT MEETS THE IP-346 CRITERIA OF LESS THAN 3 PERCENT PAH'S AND IS NOT CONSIDERED A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

DISTILLATES, PETROLEUM, HYDRO TREATED HEAVY PARAFFINIC

CARCINOGENICITY: THIS OIL HAS BEEN HIGHLY REFINED BY A VARIETY OF PROCESSES TO REDUCE AROMATICS AND IMPROVE PERFORMANCE CHARACTERISTICS. IT MEETS THE IP-346 CRITERIA OF LESS THAN 3 PERCENT PAH'S AND IS NOT CONSIDERED A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY: ALL ACUTE TOXICITY STUDIES ON SAMPLES OF BASE OIL SHOW ACUTE TOXICITY VALUES GREATER THAN 100 MG/L FOR INVERTEBRATES, ALGAE, AND FISH. THESE TESTS WERE CARRIED OUT ON WATER ACCOMMODATED FRACTIONS AND THE RESULTS ARE CONSISTENT WITH THE PREDICTED AQUATIC TOXICITY OF THESE SUBSTANCES BASED ON THEIR HYDROCARBON COMPOSITIONS.

PERSISTENCE AND DEGRADABILITY: THE HYDROCARBONS IN THIS MATERIAL ARE NOT READILY BIODEGRADABLE, BUT SINCE THEY CAN BE DEGRADED BY MICROORGANISMS, THEY ARE INHERENTLY BIODEGRADABLE.

BIOACCUMULATION POTENTIAL: VALUES MEASURED FOR THE HYDROCARBON COMPONENTS OF THIS MATERIAL ARE REGARDED AS HAVING THE POTENTIAL TO BIO ACCUMULATE. METABOLIC PROCESSES MAY REDUCE BIO CONCENTRATION.

MOBILITY IN THE ENVIRONMENT: IN WATER, BASE OILS WILL FLOAT AND SPREAD OVER THE SURFACE AT A RATE DEPENDENT ON VISCOSITY. THERE WILL BE SIGNIFICANT REMOVAL OF HYDROCARBONS FROM THE WATER BY SEDIMENT ABSORPTION. IN SOIL AND SEDIMENT, HYDROCARBON COMPONENTS WILL SHOW MOBILITY WITH ADSORPTION TO SEDIMENTS BEING THE PREDOMINANT PHYSICAL PROCESS. THE MAIN PROCESS IS EXPECTED TO BE SLOW BIODEGRADATION OF THE HYDROCARBON CONSTITUENTS IN SOIL AND SEDIMENT.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. THE GENERATOR OF A WASTE IS ALWAYS RESPONSIBLE FOR MAKING PROPER HAZARDOUS WASTE DETERMINATIONS. REGULATIONS MAY ALSO APPLY TO EMPTY CONTAINERS.

THIS MATERIAL UNDER MOST INTENDED USES WOULD BECOME "USED OIL" AFTER CONTAMINATION DUE TO CHEMICAL OR PHYSICAL IMPURITIES AFTER USE. WHENEVER POSSIBLE, RECYCLE USED OIL IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: NOT REGULATED FOR TRANSPORT

NOTE: IF SHIPPED BY LAND IN A PACKAGE HAVING A CAPACITY OF 3,500 GALLONS OR MORE, THE PROVISIONS OF 49 CFR, PART 130 MAY APPLY.

IMDG SHIPPING NAME: NOT REGULATED FOR TRANSPORT

NOTE: US DOT COMPLIANCE REQUIREMENTS MAY APPLY. SEE CFR 171.22, 23, & 25.

IATA/ICAO SHIPPING NAME: NOT REGULATED FOR TRANSPORT

NOTE: US DOT COMPLIANCE REQUIREMENTS MAY APPLY. SEE CFR 171.22, 23, & 24.

SECTION 15. REGULATORY INFORMATION

CERCLA/SARA: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 302/304 AND 40 CFR 372.

CERCLA/SARA SECTION 311/312:	ACUTE =	NO
	CHRONIC =	NO
	FIRE HAZARD =	NO
	PRESSURE HAZARD =	NO
	REACTIVE HAZARD =	NO

CERCLA/SARA SECTION 313 & 40 CFR 372: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO REPORTING REQUIREMENTS.

EPA/CERCLA REPORTABLE QUANTITIES: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICALS WITH REPORTABLE QUANTITIES.

TSCA: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON, OR ARE AUTOMATICALLY INCLUDED AS "NATURALLY OCCURRING CHEMICAL SUBSTANCES" ON, OR ARE EXEMPTED FROM THE REQUIREMENTS TO BE LISTED ON, THE TSCA INVENTORY.

SECTION 16. OTHER INFORMATION

USER ASSUMES ALL RISKS INCIDENT TO THE USE OF THIS PRODUCT. TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, PACIFIC FLUIDS LLC ASSUMES NO LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ARE MADE WITH RESPECT TO INFORMATION OR PRODUCT TO WHICH INFORMATION REFERS. THE DATA CONTAINED ON THIS SHEET SPECIFIC TO THE PRODUCT SUPPLIED TO THE USER.