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MATERIAL SAFETY DATA SHEETS

1. PRODUCT INFORMATION

THIS GENERIC MSDS REPRESENTS THE FOLLOWING VEXTROM PRODUCT:
ANTARES EP - 2

24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300 – toll free in the U.S., Canada, and U.S Virgin Islands.
703-527-3887 – for calls originating elsewhere.
TECHNICAL INFORMATION: 954 - 284 - 6785

2. COMPONENT IDENTITY/INGREDIENT INFORMATION

COMPONENTS	CAS No OF COMPONENTS	APROX. CONCENTRATION
GREASE MIXTURE PLUS ADDITIVES	COMPLEZ MIXTURE	100%

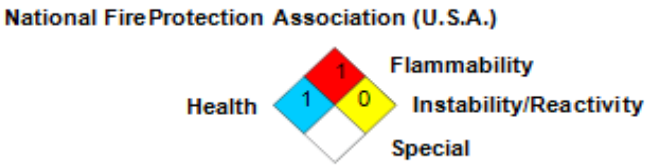
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S TSCA INVENTORY

3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT, F:	N/D
VAPOR DENSITY (AIR = 1) > 1 :	SPECIFIC GRAVITY: 0.91 – 0.93
MELTING POINT, F N/D :	EVAPORATION RATE (EE= 1) < 1
SOLUBILITY IN WATER:	NEG
ODOR: BLAND OIL ODOR	BLAND OIL ODOR
APPEARANCE:	MAROON IN COLOR

4. FIRE AND EXPLOSION

FLASH POINT F: NO DATA
FLAMMABLE LIMITS: NO DATA
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, WATER FOG, FOAM.
SPECIAL FIRE FIGHTING PROCEDURES: AVOID INHALATION OF VAPORS
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE



5. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS / MATERIALS TO AVOID: STRONG OXIDANTS, STRONG ACIDS
HAZARDOUS DECOMPOSITION / BY – PRODUCTS: CO CO2
CONDITIONS CONTRIBUTING TO HARARDOUS POLYMERIZATION: NONE

6. SPILL OR LEAK PROCEDURE

STEPS TO TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

RECOVER FREE PRODUCT. ADD SAND, EARTH, OR OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE SKIN CONTACT KEEP PRODUCT OUT OF SEWERS AND WATER COURSES BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCTS HAS ENTERES OR MAY ENTER SEWERS, WAERCOURSES, OR EXTENSIVE LAND AREAS.

7. ESPECIAL PROTECTION INFORMATION

EYE CONTACT:	IF LUBRICANT GESTS INTO THE EYES, FLUSH WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IR IRRITATION PERSISTS, CALL A PHYSICIAN.
SKIN:	IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATES CLOTHINF AND WASH SKIN WITH SOAP AND WATER. LAUNDER OR DRY CLEAN CLOTHING BEFORE REUSE. 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 INMEDIATELY BY A PHYSICIAN AS A SURGICAL EMERGENCY. EVEN THOUGH INITIAL SYMPTOMS FROM HIGH PRESSURE INJECTION MAY BE MINIMAL OR ABSORBENT, EARLY SURGICAL TREATMENT WHITIN THE FIRST FEW HOURS MAY SIGNIFICANTLY REDUCE THE ULTIMATEE EXTENT OF INJURY.
INHALATION:	VAPOR PRESSURE IS VERY LOW. VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM. IF OVERCOME BY VAPOR FROM HOT PRODUCT, INMEDIATELY REMOVE FROM EXPOSURE AND CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR HAS STOPPED, START RESUSCITATON, ADMINISTER OXYGEN, IF AVAILABLE. IF OVEREXPOSED TO OIL MIST, REMOVE FROM FURTHER EXPOSURE UNTIL EXCESSIVE OIL MIST CONDITION SUBSIDES.
INGESTION:	IF INGESTED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN INMEDIATELY.

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8. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM)
COC 470 (MINERAL OIL)

HANDLING PRECAUTIONS
USE PRODUCT WITH CAUTION AROUND HEAT, SPARKS, PILO LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)
ESTIMATED VALUES: NOT AVAILABLE

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES
FOAM, WATER SPRAY (FOG), DRY CHEMICAL , CARBON DIOXIDE AND VAPORING LIQUID TYPE EXTINGUISHING AGENTS MAY ALL BE SUITABLE FOR EXTINGUISHING FIRES INVOLVING THIS TYPE OF PRODUCT, DEPENDING ON SIZE OF FIRE AND CIRCUMSTANCES RELATED TO THE SITUATION. PLAN FIRE PROTECTION AND RESPONSE STRATEGY THROUGH CONSULTATION WITH LOCAL FIRE PROTECTION AUTHORITIES OR APPROPRIATE SPECIALISTS.

USE WATER SPRY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE TO EXTINGUISH THE FIRE. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. IF A LEAK OR SPILL HAS NOT IFNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP A LEAK. WATER SPRY MAY BE USED TO FLUSH SPILLS AWAY THE EXPOSURES. MINIMISE BREATHING OF GASES, VAPOR, FUMES, OR DECOMPOSITION PRODUCTS.
USE SUPPLIED AIR BREATHING EQUIPMENT FOR ENCLOSED OR CONFINED SPACES OR AS OTHERWISE NEEDED.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS
CARBON MONOXIDE AND CARBON DIOXIDE FROM BURNING. OXIDES OF SULFUR, SULFUR DIOXIDE OR HYDROGEN SULFIDE, DEPENDING UPON DECOMPOSITION CONDITIONS OXIDES OF CALCIUM.

´EMPTY ´ CONTAINER WARNING

´EMPTY ´ CONTAINERS RETAIN RESIDUE (LIQUID AND / OR VAPOR) AND CAN BE DANGEROSUS. 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.

DO NOT ATTEMPT TO REFILL OR CLEAN CONTAINERS SINCE RESIDUE IS DIFFICULT TO REMOVE. ´EMPTY ´ DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONED. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

9. HEALTH AND HAZARD INFORMATION

EFFECTS OVER OVEREXPOSURE (SIGNS AND SYMPTOMS EXPOSURE)
NONE WHEN USED WITH GOOD PERSONAL HYGIENE PRACTICES. MAY OTHERWISE SKIN AND EYE IRRITATION UPON PROLONGED OR REPEATED CONTACT.

ACUTE TOXICOLOGICAL PROPERTIES: NO DATA AVAILABLE
NATURE OF HAZARD AND TOXICITY INFORMATION
REPEATED AND PROLONGED OVEREXPOSURE TO OIL MISTS MAY RESULT IN DROPLET DEPOSITION, OIL GRANULOMA FORMATION, INFLAMMATION AND INCREASED INCIDENCE OF INFECTION.

IN ACCORDANCE WITH THE CURRENT OSHA HAZARD COMMUNICATION STANDAR CRITERIA, THIS PRODUCT DOES NOT REQUIRE A CANCER HAZARD WARNING. THIS IS BECAUSE THE PRODUCT IS FORMULATES FROM BASE STOCKS WICH ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/ OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. ALTERNATIVELY, IT MAY CONSIST OF COMPONENTS NOT OTHERWISE AFECTED BY IARC CRITERIA, SUCH AS ATMOSPHERIC DISTILATES OR SYNTHETICALLY DERIVED MATERIALS, AND SUCH IS NOT CHARACTERIZED BY CURRENT IARC.

PROLONGED OR REPEATED SKIN CONTACT WITH THIS PRODUCT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITISM HOWEVER BASED IN HUMAN EXPERIENCE AND AVAILABLE TOXICOLOGICAL DATA, THIS PRODUCT IS JUDGED TO BE NEITHER A CORROSIVE NOR AN IRRITANT BY OSHA CRITERIA.

PRODUCT CONTACTING THE EYES MAY CAUSE EYE IRRITATION.

PRODUCT HAS A LOW ORDER OF ACUTE ORAL AND DERMAL TOXICITY, BUT MINUETE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY DEATH.

THIS PRODUCT IS JUDGED TO HAVE AN ACUTE ORAL LD50 (RAT) GREATER THAN 5g/kg OR BODY WEIGHT, AND A ACUTE LD 50 8RABBIT) GREATER THAN 3.16 g/kg OF BODY WEIGHT.

10. ENVIRONMENTAL INFORMATION

CLEAN EATER ACT / OIL POLLUTION ACT
THIS PRODUCT MAY BE CLASSIFIES AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT, AND UNDER THW OIL POLLUTION ACT. DISCHARGES OR SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (1-800-424-8802).

STEPS TO BE TAKEN IN CASE MATERIAL ES RELEASES OR SPILLED)
RECOVER FREE PRODUCT. ADD SAND, EARTH OR OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE SKIN CONTACT. KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATER COURSES, OR EXTENSIVE LAND AREA ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUES:

THERESHOLD PLANNING QUANTITY (TPQ) EPA REGULATION 40 CFR 355
(SARA SECTION 301- 304)
NO TPQ FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN)

TOXIC CHEMICAL RELEASE REPOSTINF, EPA REGULATION 40 CFR 372 (SARA SECTION 313)
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBJECT TO THE RESPOTINF REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PARTS 372.

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA SECTIONS 311- 312)
EPA HAZARD CLASSIFICATION CODE: NOT APPLICABLE.

11. PROTECTION AND PRECAUTIONS

VENTILATION:	USE LOCAL EXHAUST TO CAPTURE VAPOR, MISTS OR FUMES IF NECESSARY. PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT OR BUILDUP OF EXPLOSIVE CONCENTRATIONS OF VAPORS IN AIR.
RESPIRATORY PROTECTION:	USE CHEMICAL RESISTANT GLOVES, IF NEEDED, TO AVOID PROLONGED OR REPEATED SKIN CONTACT.
PROTECTIVE GLOVES:	EXPECTED TO BE OF LOW TOXICITY: LD50 > 5000 mg/kg, Rabbit
EYE PROTECTION:	USE SPLASH GOOGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.
OTHER PROTECTIVE EQUIPMENT:	USE CHEMICAL RESISTANT APRON OR OTHER IMPREVIOUS CLOTHING IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING, WICH COULD RESIST IN PROLONGED OR REPEATED SKIN CONTACT.
WORK PRACTICES:	KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. IN ORDER TO PREVENT FIRE OR EXPLOSION HAZARDS, USE APPROXIMATE EQUIPMENT.
PERSONAL HYGIENE:	MINIMIZE BREATHING VAPOR, MIST OR FUME. AVOID PROLONMGES OR REPEATED CONTACT WITH SKIN. REMOVE CONTAMINATED CLOTHING. LAUNDER OR DRY CLEAN BEFORE RE USE. REMOVE CONTAMINATED SHOES AND THOROUGHLY CLEAN BEFORE RE USE. DISCARD IF OIL SOAKED. CLEANSE SKIN THOROUGHLY AFTER CONTACT, BEFORE BREAKS AND MEALS, AND AT END OF WORK PERIOD. PRODUCT IS READILY REMOVED FROM SKIN BY WATERLESS HAND CLEANERS FOLLOWED BY WASHING THOROUGHLY WITH SOAP AND WATER.

12. TRANSPORTATION AND INFORMATION

TRANSPORTATION INCIDENT INFORMATION

FOR FURTHER INFORMATION RELATIVE TO SPILLS RESULTING FROM TRANSPORTATION INCIDENTS, REFER TO LATEST DEPARTMENT OF TRANSPORTATION.

EMERGENCY RESPONSE GUIDEBOOK FOR HAZARDOUS MATERIALS INCIDENTS.

U.S DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION: NOT REGULATED.

U.S DOT PROPER SHIPPING NAME: NOT REGULATED.

13. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. VEXTROM CORPORATION BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY. VEXTROM CORPORATION SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING OUT OF THE USE THEREOF. THE INFORMATION AND RECOMMENDATIONS ARE OFFERED FOR THE USER CONSIDERATION AND EXAMINATION, AND IT IS THE USER RESPONSIBILITY TO SATISFY ITSELF THAT THEY ARE SUITABLE AND COMPLETE FOR ITS PARTICULAR USE.