

Material Safety Data Sheet

Effective Date: 01-MAR-2005
Product: PENETRATOR

I. IDENTIFICATION

Chemical Name: OIL SURFACTANT
Chemical Family: NONIONIC SURFACTANT
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.
EPA Number: CAL. REG. NO. 5905-50092-AA

II. PHYSICAL DATA

Boiling Point: 380 TO 515 DEG F.
Freezing Point: <0 DEGREES F.
Spec Gravity: .878 GMS/CC
Vapor Pressure: 0.08 MM HG
Vapor Density: 8+
Solubility: DISPERSIBLE
Volatiles: <1%
Evaporation: 1000X
Melting Point: NOT APPLICABLE
Appearance: GREEN LIQUID, MINERAL OIL ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PARAFFIN BASE PETROLEUM OIL (CASRN 64742-55-8 OR 64742-56-9), POLYOL FATTY ACID ESTERS, POLYETHOXYLATED DERIVATIVE THEREOF		99.00	N/E	MILD SKIN & EYE IRRITANT
INERT INGREDIENTS		1.00	N/E	NON-HAZARDOUS

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F.
Autoignition Temp: 650 DEG F (ESTIMATE)
Flammable Limit: NOT ESTABLISHED
Extinguishing Media: WATER SPRAY, FOAM, DRY CHEMICAL AND CARBON DIOXIDE.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND AVOID BREATHING FUMES.
Fire and Expl Hazard: USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

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V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: THIS PRODUCT IS JUDGED TO HAVE AN ACUTE ORAL LD50 (RAT) GREATER THAN 5 GM/KG.
Skin Absorption: THIS PRODUCT IS JUDGED TO HAVE AN ACUTE DERMAL LD50 (RABBIT) GREATER THAN 3 GM/KG.
Inhalation: VAPOR PRESSURE IS VERY LOW. VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM.
Skin contact: MAY CAUSE IRRITATION AFTER REPEATED EXPOSURE.
Eye Contact: PRODUCT CONTACTING THE EYES MAY CAUSE EYE IRRITATION.
Chronic Effects: PROLONGED OR REPEATED SKIN CONTACT WITH THIS PRODUCT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITIS.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF INGESTED, "DO NOT INDUCE VOMITING." CALL A PHYSICIAN IMMEDIATELY.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. WASH CLOTHING BEFORE REUSE.
Inhalation: MOVE TO FRESH AIR IF IRRITATION IS NOTED. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS. PRODUCT HAS A LOW ORDER OF ACUTE ORAL AND DERMAL TOXICITY, BUT MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: NONE CURRENTLY KNOWN.
Polymerization: Will Not Occur

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Incompatibility material: DO NOT ALLOW CONTACT WITH OXIDIZERS.
Hazardous Combustion: MAY PRODUCE OXIDES OF CARBON UNDER FIRE
CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: DIKE AND ABSORB SPILL WITH AN ABSORBENT SUCH AS
CLAY, SAND, OR SAWDUST. TRANSFER TO SUITABLE
CONTAINERS FOR PROPER DISPOSAL. FLUSH SPILL
AREA WITH WATER, ABSORB, AND PLACE IN SAME
CONTAINERS WITH OTHER MATERIAL.
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO
FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE
RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: IF SPRAY IS PRESENT, USE NIOSH/MSHA APPROVED
RESPIRATORY PROTECTION APPROPRIATE FOR
INDICATED COMPONENTS.
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: EYE WASH STATION, IMPERVIOUS APRON AND
FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE
WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED
OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR
PONDS. KEEP CONTAINERS CLOSED WHEN NOT IN USE.
DO NOT STORE NEAR HEAT, SPARKS, FLAMES, OR
STRONG OXIDANTS.
Other precaution: HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM
HYDROCARBONS AND SYNTHETIC LUBRICANTS POSE
POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY
FROM PERSON TO PERSON. AS A PRECAUTION,
EXPOSURE TO LIQUIDS, VAPORS, MISTS, OR FUMES
SHOULD BE MINIMIZED.

