

Material Safety Data Sheet

Effective Date: 23-JAN-2000  
Product: PENETRATOR

I. IDENTIFICATION

Chemical Name: OIL SURFACTANT  
Chemical Family: NONIONIC SURFACTANT  
Formula: NOT APPLICABLE, FORMULATED MIXTURE.  
Synonyms: PENETRATOR 3  
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.  
EPA Number: CAL. REG. NO. 5905-50067-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
POLYETHOXYETHYLATED POLYOL FATTY ACID ESTER		17.00	NOT ESTABLI SHED	MILD SKIN & EYE IRRITANT
PARAFFINIC BASED PETROLEUM OIL (CAS # 64742-55-8 OR 64742-56- 9)		83.00	5 MG/M3	MILD SKIN & EYE IRRITANT

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

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Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

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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

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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.

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VI. REACTIVITY

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

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Incompatibility material: DO NOT ALLOW CONTACT WITH OXIDIZERS.  
Hazardous Combustion: MAY PRODUCE OXIDES OF CARBON UNDER FIRE  
CONDITIONS.  
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VII. SPILL OR LEAK PROCEDURES  
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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.  
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VIII. SPECIAL PROTECTION INFORMATION  
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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.  
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IX. SPECIAL PRECAUTIONS  
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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.

