



Petra™ Penetrate P/N 9002

1.- COMPANY AND PRODUCT IDENTIFICATION

PRODUCT NAME: SUPER PENETRATING OIL
CAS NUMBER: N/A
PRODUCT DESCRIPTION: MIXTURE OF SURFACTANTS AND PETROLEUM DISTILLATES
CONTACT ADDRESS: Petra Oil Company
5829 W. Sam Houston Pkwy N., Suite 804
Houston, Texas 77041
INFORMATION (LOCAL) 713-856-5700
EMERGENCY PHONE NUMBER: CHEMTREC: (800) 424-9300

2.- HAZARDOUS INGREDIENTS

Name	CAS Number	Percentage
Petroleum distillates	64742-95-6	45 – 90 %
Light hydrotreated petroleum distillates	64742-88-7	7 – 30 %
Sodium sulfate alkyl ether	N/D	1 – 4 %
Polyetoxilated stearilic ether	9005-00-9	< 1 %

3.- CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE	LIQUID
COLOR	DARK YELLOW
SPECIFIC GRAVITY	0.806 g/ml
BOILING POINT	> 150 °C
VISCOSITY @40 °C	3 cps
FLASH POINT (CCCFP)	38 °C
FREEZING POINT	N/D
VAPOR PRESSURE (mmHg)	N/D
WATER SOLUBILITY	NOT SOLUBLE

4.- HEALTH HAZARD INFORMATION

MAIN HAZARDS:

- CAN CAUSE EYE AND SKIN IRRITATION.
- CONTENTS UNDER PRESSURE, KEEP AWAY FROM HEAT AND FLAMES.
- DO NOT INCINERATE, PUNCTURE OR KEEP CONTAINER AT TEMPERATURES HIGHER THAN 50°C

HEALTH HAZARDS

EXPOSURE TO THIS PRODUCT CAN OCCUR THROUGH INHALATION, INGESTION, AND SKIN AND EYE CONTACT.



M S D S

Material Safety Data Sheet

POTENTIAL HEALTH EFFECTS, SKIN

SIGNIFICANT EFFECTS ARE NOT EXPECTED BECAUSE OF SHORT-TERM EXPOSURE. PROLONGED OR REPEATED CONTACT WITH GREAT QUANTITIES OF THIS PRODUCT MAY RESULT IN REDNESS AND SKIN IRRITATION.

POTENTIAL HEALTH EFFECTS, EYES

MAY CAUSE MILD IRRITATION AND TEARING. PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

POTENTIAL HEALTH EFFECTS, INHALATION

INHALATION TOXICITY IS LOW. BREATHING SMALL QUANTITIES DURING HANDLING MAY NOT CAUSE NEGATIVE EFFECTS. BREATHING GREAT QUANTITIES OF MISTS OF VAPORS MAY BE HARMFUL.

EXPOSURE TO GREAT QUANTITIES MAY CAUSE RESPIRATORY TRACT IRRITATION.

POTENTIAL HEALTH EFFECTS, INGESTION

IN SMALL DOSES TOXICITY IS LOW. INGESTION OF LARGE QUANTITIES MAY CAUSE GASTROINTESTINAL IRRITATION.

5.- FIRST AID

EYE CONTACT: IMMEDIATELY WASH EYES WITH PLENTY WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

SKIN CONTACT: IMMEDIATELY WASH SKIN WITH PLENTY OF NEUTRAL SOAP AND WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING SEPARATELY BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INHALATION: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GIVE AT LEAST 3- 4 GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

NEVER GIVE ANYTHING IN THE MOUTH TO AN UNCONSCIOUS PERSON.

6.- FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CATEGORY

NFPA 30: AEROSOL LEVEL 3
FLAME EXTENSION: > 18"
EXTREMELY FLAMMABLE(16 CFR 1500.45)

FLASH POINT: N/D

FLAMMABILITY LIMITS IN AIR, LOWER, % BY VOLUME: N/D

FLAMMABILITY LIMITS IN AIR, UPPER, % BY VOLUME: N/D

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO2, DRY CHEMICAL FOAM, WATER FOG.

PERSONAL PROTECTION: FIREFIGHTERS MUST WEAR NIOSH APPROVED POSITIVE PRESSURE BREATHING APPARATUS (SCBA) WITH FULL FACE MASK AND FULL PROTECTIVE EQUIPMENT.



SPECIAL FIREFIGHTING PROCEDURES: COOL CONTAINERS EXPOSED TO FIRE DURING AND AFTER FIRE TO PREVENT EXPLOSIONS. WATER STREAMS OF WATER WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AND COLLECT WATER USED TO FIGHT FIRE. WATER

HAZARD COMBUSTION PRODUCTS: CO_x AND OTHER INCOMPLETE COMBUSTION PRODUCTX.

7.- ACCIDENTAL SPILLS OR LEAKS

PROCEDURE IN CASE OF SPILLS OR LEAKS

THE FOLLOWING STEPS SHOULD BE FOLLOWED IN CASE MATERIAL IS RELEASED OR SPILLED: PERSON NOT WEARING PROTECTIVE EQUIPMENT AND CLOTHING SHOULD BE RESTRICTED FROM CONTAMINATED AREAS UNTIL HAS BEEN COMPLETED.

1. DO NOT TOUCH THE SPILLED MATERIAL; STOP THE LEAK IF IT IS POSSIBLE TO DO SO WITHOUT RISK.
2. NOTIFY SAFETY PERSONNEL.
3. REMOVE ALL SOURCES OF HEAT AND IGNITION.
4. VENTILATE POTENTIALLY EXPLOSIVE ATMOSPHERES USING MAXIMALLY EXPLOSION-PROOF EQUIPMENT.
5. USE NONSPARKING TOOLS FOR CLEANUP.
6. WATER SPRAY MAY BE USED TO REDUCE VAPORS, BUT THE SPRAY MAY NOT PREVENT IGNITION IN CLOSED SPACES.
7. FOR SMALL LIQUID SPILLS, TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CLOSED CONTAINERS FOR LATER DISPOSAL.

FOR LARGE LIQUID SPILL, BUILD DIKES FAR AHEAD OF THE SPILL TO CONTAIN THE MATERIAL FOR LATER RECLAMATION OR DISPOSAL

DISPOSAL

CARE MUST BE TAKEN WHEN USING OR DISPOSING OF CHEMICAL MATERIALS AND/OR THEIR CONTAINERS TO PREVENT ENVIRONMENTAL CONTAMINATION.

DISPOSAL CAN OCCUR ONLY IN PROPERLY PERMITTED FACILITIES. CHECK STATE AND LOCAL REGULATIONS FOR ANY ADDITIONAL REQUIREMENTS AS THESE MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS AND REGULATIONS. CHEMICAL ADDITIONS, PROCESSING OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE THE WASTE MANAGEMENT INFORMATION PRESENTED IN THIS MSDS INCOMPLETE, INACCURATE OR OTHERWISE INAPPROPRIATE. DISPOSAL OF THIS MATERIAL MUST BE CONDUCTED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

8.- HANDLING AND STORAGE

STORAGE PROCEDURES: KEEP MATERIAL AWAY FROM HEAT, ELECTRIC ARCS, STATIC ELECTRICITY AND FIRE. AVOID BREATHING VAPORS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. WASH HANDS AFTER HANDLING. EMPTY CONTAINERS MAY CONTAIN MATERIAL. DO NOT CUT, WELD, PUNCTURE OR EXPOSE CAN TO HEAT, FLAMES OR OTHER IGNITION SOURCES.

DO NOT EAT, DRINK OR SMOKE IN STORAGE AREAS.

HANDLING: AVOID BREATHING VAPORS OR FUMES, AVOID EYE OR SKIN CONTACT. USE WITH ADEQUATE VENTILATION. WASH HANDS AFTER HANDLING. OBEY LABEL INSTRUCTIONS UNTIL CAN IS DESTROYED.



9.- EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: USE LOCAL VENTILATION.

SKIN PROTECTION: NOT NECESSARY UNDER NORMAL USE. **EYE**

PROTECTION: NOT NECESSARY UNDER NORMAL USE. **RESPIRATORY**

PROTECTION: NOT NECESSARY UNDER NORMAL USE.

10.- REACTIVITY AND STABILITY

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION MAY FORM CARBON DIOXIDE, CARBON MONOXIDE, SULFURIC ACID, POSSIBLE TRACES OF PHOSGENE.

CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAMES, HOT GLOWING SURFACES OR ELECTRICS ARCS.

11.- TOXICITY INFORMATION

PETROLEUM DISTILLATES

ORAL LD50 RAT 2900 mg/kg

LIGHT PETROLEUM DISTILLATES

INHALATION LC50 RAT, 450 ppm (4 H)

ORAL LD50 RAT 530 mg/kg

PIG SKIN LD50 230 mg/Kg

SODIUM SULFATE ALKYL ETHER

SKIN TOXICITY: IRRITATING

ORAL TOXICITY: LD50 >2000 mg/kg, RAT.

POLYETOXILATED STEARILIC ETHER

SKIN TOXICITY: IRRITATING

12.- EXPOSURE LIMITS

PETROLEUM DISTILLATES

OSHA 100 PPM-8 HORAS (TWA)

ACGIH 100 PPM-10 HORAS (TWA)

PETROLEUM DISTILLATES LIGERO

NO DETERMINADO

SODIUM SULFATE ALKYL ETHER

NO DETERMINADO

POLYETOXILATED STEARILIC ETHER

NO DETERMINADO

TWA : Time Weighted Average

STEL : Short Term Exposure Limit

OSHA: Occupational Safety & Health Administration

NIOSH: National Institute for Occupational Safety and Health



M S D S

Material Safety Data Sheet

ACGIH: The American Conference of Governmental Industrial Hygienists

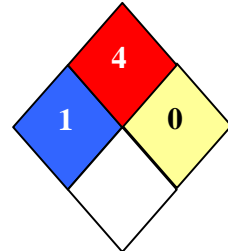
13.- SIGNAL AND LABEL INFORMATION

NFPA CODE: HEALTH: 1; FIRE: 4; REACTIVITY: 0.
HMIS CODE: HEALTH: 1; FIRE: 4; REACTIVITY: 0.

PRECAUTION LABELS

DANGER

- EXTREMELY FLAMMABLE.
- CONTENTS UNDER PRESSURE, DO NOT PUNCTURE CONTAINER OR EXPOSE TO HEAT, SPARKS OR FLAMES.
- DO NOT STORE AT TEMPERATURES HIGHER THAN 121 °F.
- KEEP OUT OF THE REACH OF CHILDREN.
- VAPOR HARMFUL.
- HARMFUL OR FATAL IF SWALLOWED.



14.- SHIPPING INFORMATION

Secretaria de Comunicaciones y transportes (SCT) – NOM-002-SCT2/1994 (México)

Información general para la transportación de embarques.

Nombre para transportación: Aerosol inflamable
Número ONU: 1950
Clase/División: 2.1
Cantidad Limitada: 1000 ml por bote
Se puede transportar como cantidad limitada

U.S. Department of Transportation (DOT) 49 – CFR 172

General Transportation Information for Shipments

Shipping name: Consumer Commodity, ORM-D
UN Number: N/A
Class/Division: N/A
Packing Group (PG): N/A
Label: FLAMMABLE
CONTENTS UNDER PRESSURE

International Water Transportation – IMDG CODE

General Transportation Information for Shipments

Shipping name: Aerosol, flammable, n.o.s.
UN Number: UN 1950
Class/Division: 2.1
Packing Group (PG): N/A
Limited Quantity: 1000 ml per can

According to filled quantities, special labeling is not required. (Chapter 3.4 LIMITED QUANTITIES).

15.- ADDITIONAL INFORMATION

THE INFORMATION PRESENTED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE TO THE DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, A MSDS MAY NOT BE USED AS A COMMERCIAL SPECIFICATION SHEET OF MANUFACTURER OR SELLER, AND NO WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR COMPREHENSIVENESS OF THE FOREGOING DATA AND SAFETY INFORMATION, NOR IS ANY AUTHORIZATION GIVEN OR IMPLIED TO PRACTICE ANY A PATENTED INVENTION WITHOUT A LICENSE.

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