

KEY-SEAL PRODUCTS, INC.

M.S.D.S.

KEY-1

Key-Seal Asphalt Emulsion Sealer is a blend of Paramount Petroleum Emulsion and other minerals. We have included Paramount Petroleum's entire M.S.D.S. for their emulsion as the other materials/minerals that are used in producing Key-Seal sealer are non-hazardous and require no postings or warnings.

PARAMOUNT PETROLEUM CORPORATION M.S.D.S.

EMULSIFIED ASPHALT SS-1h(NVX)

CHEMICAL PRODUCTION/COMPANY IDENTIFICATION

PRODUCT CODE: PCS03
 GRADE: SS-1h (NVX)
 MANUFACTURER: PARAMOUNT PETROLEUM CORPORATION
 10090 WATERMAN ROAD
 ELK GROVE, CALIFORNIA 95624

EMERGENCY TELEPHONES:

CHEMTREC: (800) 424-9300
 PARAMOUNT: (916) 685-9253
 M.S.D.S. PREPARATION DATE: JUNE 1, 2004

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS#	CONTENTS	OSHA TWA	ACGIH TLV-TWA
OIL MIST	8012-95-1		5MG/M3	

FIRST AID MEASURES

Rinse area with water for at least 15 minutes and get medical attention.

IN CASE OF INGESTION CALL THE LOS ANGELES POISON CONTROL CENTER:

(800) 777-6476 OR NEAREST POISON CONTROL CENTER TO YOU.

FIRE FIGHTING INFORMATION

NFPA 704 HAZARD	NFPA SCALE
Health Risk = 1	4 = Extreme
Flammability = 0	3 = High
Reactivity = 0	2 = Moderate
Other = 0	1 = Insignificant

Flash Point (F): N/A
 NFPA FLAMMABILITY RATING: None Flammable
 OSHA FLAMMABILITY CLASS: None Flammable

EXTINGUISHING MEDIA: Water spray.

SPECIAL FIRE FIGHTING PROCEDURES: fight advanced or massive fires from safe distance or protected location.

EVACUATION PROCEDURES: Persons without protective equipment and clothing should be restricted from hazard area. Stay uphill and up wind of the release.

RESPIRATOR RECOMMENDATION: Emulsion vapors may be controlled with an organic vapor respirator.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

ACCIDENTAL RELEASE MEASURES

Use water spray to reduce vapors.
 Extinguish all ignition sources. Avoid sparks, flames, heat, smoking.
 Protect the environment by damming the material ahead of run off.

Label Information:

WARNING: CONTAINS AROMATIC PETROLEUM OIL. LIQUID MAY CAUSE IRRITATION OR MORE SERIOUS SKIN DISORDERS ON PROLONGED OR REPEATED SKIN CONTACT. PROLONGED SKIN CONTACT HAS CAUSED SKIN CANCER IN LABORATORY ANIMALS. HOT MATERIAL WILL CAUSE BURNS. AVOID CONTACT WITH SKIN AND CLOTHING. AVOID BREATHING VAPOR. KEEP AWAY FROM HEAT AND FLAME. USE WITH ADEQUATE VENTILATION. WHEN CONTACT IS LIKELY, WEAR OIL IMPERVIOUS CLOTHING AND GLOVES. DO NOT INGEST. IF INGESTED: DO NOT INDUCE VOMITING. CALL A DOCTOR.

EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: (Required above 5mg/m³ TWA for an 8 hour day) Respiratory protection must be used if the exposure level exceeds the Permissible Exposure Level (PEL).

PROTECTIVE CLOTHING AND EQUIPMENT: Use Insulated, Rubber or Xetex gloves. A Splash jacket and boots are recommended.

EYE PROTECTION: Wear safety glasses and face shield to prevent any possibility of contact with hot emulsion.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURES: Burns.

HYGIENIC WORK PRACTICES: Wash promptly if skin becomes contaminated. Use engineering controls to reduce air contamination to a safe level. Repeated exposure may cause chronic upper respiratory irritation, mild dermatitis, allergic skin rash.

VENTILATION REQUIREMENTS: Well ventilated area.

SKIN CONTACT: Remove victim from source of contamination.

INHALATION: Move the exposed person to fresh air at once.

INGESTION: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS.

PHYSICAL AND CHEMICAL PROPERTIES:

Viscosity (77F) = 26
pH = 11.2
Density (Lbs/Gal) = 8.5
Appearance: liquid, viscous
Color: brown/black
Odor: hydrocarbon

STABILITY AND REACTIVITY

STABILITY: Normally stable
CONDITIONS TO AVOID: Acids and Flame
REACTIVITY INDEX: Normally stable (0)
HAZARDOUS DECOMPOSITION: CO and CO₂
HAZARDOUS POLYMERIZATION: N/A
WATER REACTIVE: N/A
AIR REACTIVE: N/A
INCOMPATIBLE CLASSES OF CHEMICALS: ACIDS

TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Inhalation, skin absorption, ingestion, skin and/or eye contact.

TARGET ORGANS: Central nervous system, gastro-intestinal tract, heart and cardiovascular system, kidneys, liver, respiratory system, lungs.

TOXIC DOSE (LD 50): Asphalt N/A.

PERMISSIBLE EXPOSURE LIMITS:

OSHA PEL: 5mg/m³ (Oil Mist)
ACGIH TLV: 5mg/m³ (Oil Mist)
ACGIH STEL: No Std
NIOSH PEL: No std
NIOSH IDLH: No std

CARCINOGENICITY:
NTP? No
LARC? No
OSHA? No

ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT: REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. IN CASE OF A SIGNIFICANT LAND SPILL NOTIFY - CALIFORNIA OFFICE OF EMERGENCY SERVICES, LOCAL FIRE DEPARTMENT, STATE FIRE MARSHAL, CALIFORNIA HIGHWAY PATROL AND DEPARTMENT OF TRANSPORTATION. THE U.S. COAST GUARD REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS THAT COULD REACH ANY WATERWAY INCLUDING INTERMITTENT DRY CREEKS. THE COAST GUARD NUMBER IS (800) 424-8802.

DISPOSAL CONSIDERATIONS

KEY.

Confirm disposal procedures with environmental engineer and local state and federal regulations.

ATTENTION: EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING COMBUSTIBLE MATERIALS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNING AND PRECAUTIONS MUST BE OBSERVED UNTIL CONTAINER HAS BEEN THOROUGHLY CLEANED.

TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Asphalt, nonhazardous

D.O.T.	HAZARD CLASS:	N/A
D.O.T.	ID NUMBER:	N/A
D.O.T.	Marking:	N/A
D.O.T.	PK. GP>:	N/A
Product Name:		Emulsified Asphalt

REGULATORY INFORMATION**CLEAN WATER ACT/OIL POLLUTION ACT**

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (800) 424-8802.

THRESHOLD 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)

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Section 311-312)

EPA HAZARD CODE:	Acute	Chronic	Fire	Pressure	Reactive
ASSESSMENT:	None	None	None	None	None

TOXIC CHEMICALS FOR RELEASE REPORTING 40 CFR 372 (SARA Section 313) ASSESSMENT:

This product contains no toxic chemicals at concentrations above the established de minimis levels.

PROPOSITION 65 LISTINGS: California Safe Drinking Water and Toxic Enforcement Act of 1986: Bitumens are on this chemical list.

DETECTABLE AMOUNTS OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM ARE FOUND IN THE PRODUCT.

(California Health and Safety Code 25249.6)

OTHER INFORMATION**DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES**

No warranty of merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information. The results obtained from the use of this information or product, and the safe use of the product are the sole responsibility of the user.

Revised and approved for use by: Fire, safety and Security - June 1, 2004.

Dispose in accordance with all local, state, and federal regulations.

AVOID FREEZING this product, store at room temperature with ventilation to container (open lid, etc.). Product will need agitation after sitting.

The information given herein is based on the emulsion produced by Paramount Petroleum and our own research of data from other reliable sources and are believed to be accurate. It is purchasers responsibility to determine whether this product is suitable for their purposes.

THIS PRODUCT AVAILABLE AT:**ASPHALT MAINTENANCE PRODUCTS & SUPPLIES**

724 W. LINWOOD AVENUE • TURLOCK, CA 95380

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