

**MATERIAL SAFETY DATA SHEET
TALLEY OIL INC.**

SECTION 1

SUPPLIER'S NAME TALLEY OIL INC.
24 HR. EMERGENCY NUMBER: (559) 217 - 3411
ADDRESS: 12483 Road 29
Madera, CA 93638
CHEMICAL NAME: ASPHALT EMULSION
PRODUCT NAME: Cationic Emulsion **PMCRS-2h or LMCRS-2h or CRS2-P**
CHEMICAL FAMILY: Hydrocarbon
CAS#: Mixture

SECTION 2: HAZARDOUS INGREDIENTS OF MIXTURES

| CAS# | MATERIAL OR COMPONENT | % | THRESHOLD LIMIT VALUE |
|------------|-----------------------|-----|-----------------------|
| 64741-56-6 | Petroleum Asphalt | 70% | TLV ng/m3 (fumes) |
| N/A | Water | 26% | not determined |
| N/A | Synthetic Rubber | >3% | not determined |
| Mixture | Minor additives | >1% | not determined |

SECTION 3: PHYSICAL DATA

BOILING POINT (F): 212
MELTING POINT: Not determined
DENSITY: 1
VAPOR PRESSURE: Not determined
VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER (5 BY WT.): Appreciable
% VOLATILES BY VOL.: NONE
EVAPORATION RATE: N/A
APPEARANCE AND ODOR: Brown liquid, slight odor

SECTION 4 FIRE AND EXPLOSION DATA

FLASH POINT: NONE
EXTINGUISHING MEDIA: MATERIAL WILL NOT BURN
DRY CHEMICAL OR FOAM IF NEEDED
UNUSAL FIRE FIGHTING PROCEDURES: NONE

SECTION 5: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
EYES: Product is presumed to be minimally irritating to the eyes.
Contact with product at elevated temperatures can result in thermal burns.
SKIN: Product is presumed to be minimally irritating to the skin.
Contact with product at elevated temperatures can result in thermal burns.
Prolong and repeated contact may result in various skin disorders.
INHALATION: Inhalation of vapors (generated at high temperatures) may cause irritation to the nose, throat and respiratory tract.

EMERGENCY FIRST AID PROCEDURES:

EYES: Flush with water for 15 minutes while holding eyelid open.
Get medical attention.

SKIN: Asphalt emulsion will wash off skin when treated immediately.
If product has cured remove with a solvent or tar remover.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult.
Get medical attention.

INGESTION: Do not induce vomiting. Get medical attention.

SECTION 6 REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: Do not allow emulsion to freeze.

INCOMPATIBILITY: Not compatible with any anionic emulsions.
Product contains at least 30% water; addition to hot asphalt will cause violent reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Prevent material from entering
Sewers or waterways. Dike and contain. Remove with vacuum truck or pump into storage.
Soak up residue with an absorbent such as sand, dispose of properly.

WASTE DISPOSAL METHOD: Place in appropriate disposal facility in compliance with local regulations.

SECTION 8 PROTECTIVE EQUIPMENT

VENTILATION: If exposure may or does exceed occupational exposure limits, use NIOSH approved respirator to prevent overexposure. Organic vapor (CW21-50 Cartridge).

PERSONAL PROTECTIVE EQUIPMENT: Wear impervious gloved and protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact.

SECTION 9 SPECIAL PRECAUTIONS

This product is an "oil" under the Clean Water Act. Keep out of surface waters and any watercourses or sewers entering or leading to surface waters. Spills on or in waterways must be reported to the National Response Center (800-424-8802). This product contains products that contain trace amounts of a substance designated by the State of California to be a Carcinogen/reproductive toxin.

DATE: 9-1-2000

The information contained herein is based on the data available to us and is believed to be correct. However, Talley Oil Inc. makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from use thereof. Talley Oil Inc. assumes no responsibility for injury from the use of the product described herein.
