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cleaner environment

KLEN 1808

Oil Dispersant

Product Description

KLEN 1808 is specially developed to handle oil spills on land or sea. It effectively emulsifies oil to allow natural bacterial action to absorb and decompose tiny droplets, reducing fire hazards and water pollution. **KLEN 1808** is biodegradable and does not harm marine life.

Areas of Use

KLEN 1808 can be used to disperse oil waste on dock area, deck, slips, bilges, sumps, harbour, steamship companies, marinas, dry dock, coastal refineries, offshore oil rigs, oil transportation companies etc.

Special Features

- Fast action. **KLEN 1808** penetrates; dissolves oil into tiny droplets to allow natural bacterial action to absorb and decompose completely.
- Non corrosive and non toxic. **KLEN 1808** has flash point higher than 65°C, does not harm zinc, aluminum, admiralty metal and fiberglass, is low in toxicity and does not harm skin or marine life.



Directions for Use

- Apply undiluted **KLEN 1808** directly onto contaminated area by spray, mop or brush.
- Leave to emulsify for few minutes then hose away with water.
- For oil pollution in water, spray or pour directly to oil spilled area.
- Agitation in sea for heavy oil slick is usually facilitated by power boat propellers or high velocity water hose.

Precautions

As with all chemical products, avoid ingestion and eye contact. Wash hands thoroughly with soap and water after use.

SAFETY DATA SHEET

| SECTION 1 - IDENTIFICATION | | | | |
|--|-------------------------|--|------------|-----------|
| Product Identifier: KLEN 1808 | | Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist | | |
| Other means of identification: Oil Dispersant | | Phone: (65) 6862 3388 | | |
| Date of SDS: 01 January 2024 | | Fax: (65) 6861 7575 | | |
| Recommended use and restriction on use: KLEN 1808 can be used to disperse oil waste on dock area, deck, slips, bilges, sumps, harbour, steamship companies, marinas, dry dock, coastal refineries, off-shore oil rigs oil transportation companies etc. | | Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249 | | |
| SECTION 2 - HAZARDS IDENTIFICATION | | | | |
| GHS classification: Flammable liquid: Category 4; Skin irritation: Category 2; | | Acute toxicity: Oral: Category 4; Eye irritation: Category 2 | | |
| GHS label elements: Pictogram: | | Signal word: Warning | | |
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| Hazard statements: | | H226: Flammable liquid. H315: Causes skin irritation. H320: Causes eye irritation. | | |
| Precaution statements: | | P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P262: Do not get in eyes. | | |
| SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS | | | | |
| Chemical Identification | Component & Composition | Chemical Formula | CAS NO. | EC NO. |
| Diesel | > 70.0 % | N. A | 68334-30-5 | 269-822-7 |
| Cocodiethanolamide | < 3.0 % | CH ₃ (CH ₂) _n C(=O)N(CH ₂ CH ₂ OH) ₂ | 68603-42-9 | 271-659-0 |
| PEG 400 Mono-Oleate | < 6.0 % | C28 H54 O7 | 9004-96-0 | 224-806-9 |
| Sorbitan Monolaurate | < 4.0 % | C18H34O6 | 1338-39-2 | 215-663-3 |
| Oleic Acid | < 8.0 % | C18H34O2 | 112-80-1 | 204-007-1 |
| SECTION 4 – FIRST AID MEASURES | | | | |
| Inhalation: Move to area of fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person. | | | | |
| Skin contact: Wash with large amounts of soap and water. If irritation persists, consult a physician. | | | | |
| Eye contact: Flush with cool water for at least 15 minutes. Then consult a physician immediately. | | | | |
| Ingestion: Do not induce vomiting. Dilute by drinking water. Call a physician immediately. | | | | |
| Notes to Physicians: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy. | | | | |
| SECTION 5 – FIRE-FIGHTING MEASURES | | | | |
| Suitable fire-extinguishing media: Dry chemical, carbon dioxide and foam. | | | | |
| Specific hazards arising from the chemical: Burning can produce carbon dioxide and/or carbon monoxide. | | | | |
| Special protective actions for fire fighters: Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment. | | | | |
| SECTION 6 - ACCIDENTAL RELEASE MEASURE | | | | |
| Personal precautions, protective equipment, and emergency measures: Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc). | | | | |
| Environmental precautions: Chemical substances should not be released into the environment (water, soil). | | | | |
| Methods and materials for containment and cleaning up: Stop spill at source. Eliminate all sources of ignition. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water. Cover spills with absorbent clay, sawdust or inert material and placed in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations. | | | | |
| SECTION 7 - HANDLING AND STORAGE | | | | |
| Precaution for safe handling: Wash thoroughly after handling, especially before eating and drinking, Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-using. | | | | |
| Conditions for safe storage, including any incompatibilities: Combustible material. Store in cool, dry, well-ventilated area at room temperature away from any possible source of ignition Do not re-use empty containers for food, clothing or products for human or animal consumption or where skin contact can occur. | | | | |
| SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION | | | | |
| Control parameters/ Occupational exposure limits: ACGIH - TLV: Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels. | | | | |
| Appropriate engineering control measures: Normally ventilation is not required unless in confined area. | | | | |
| Personal Protection: Use protective equipment such as rubber/PVC gloves; protective glasses if splashing is anticipated. | | | | |

| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES | |
|--|---|
| Appearance & Odour: | Brown liquid with characteristic odour. |
| Solubility in water: | Emulsifiable |
| Boiling Point: | > 100 ° C |
| Specific Gravity: | 0.870 +/- 0.01 g/cm ³ (1% dilution) |
| PH: | N.A |
| Flash Point (T.C.C.): | >65 ° C Flammable Limits - Upper: ~ 7.0% Lower: ~0.9 % |
| Vapour Pressure: | < 1 @ 20 ° C (mm Hg) |
| Vapour Density: | > 5 (Air = 1) |
| SECTION 10 - STABILITY AND REACTIVITY | |
| Reactivity/ In compatible materials: | Strong Oxidizers. |
| Chemical stability: | Stable under normal temperature and pressure. |
| Possibility of hazardous reaction: | Will not occur. |
| Condition to avoid: | Prevent possible source of ignition. |
| SECTION 11 – TOXICOLOGICAL INFORMATION | |
| Acute toxicity: | Slight health hazard. |
| Skin or eye irritation: | This product contains Petroleum Solvent that may cause irritation in eyes and skin of some individuals. |
| SECTION 12 – ECOLOGICAL INFORMATION | |
| Persistence and degradability: | Product degrades readily by action of microorganism. |
| Bioaccumulative potential: | It is soluble in water and does not bio-accumulate. |
| SECTION 13 – DISPOSAL CONSIDERATIONS | |
| Disposal method: | Dispose of in an approved waste facility according to local regulations. It is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework if feasible (2) Incinerate at an authorized facility (3) Treat at an acceptable waste treatment facility. |
| SECTION 14 – TRANSPORT INFORMATION | |
| This material is non-regulated and no special requirement is necessary. HS Code: 34024990 | |
| SECTION 15 – REGULATORY INFORMATION | |
| International regulation: | |
| Classification: | This product contains Petroleum Solvent that is classified as a combustible liquid under EC classification. |
| Risk phrases: | R10 Flammable. R36 Irritating to eyes. |
| Safety phrases: | S02 Keep out of reach of children. S16 Keep away from sources of ignition – No Smoking. S25 Avoid contact with eyes. |
| SECTION 16 – OTHER INFORMATION | |
| Hazard Rating: HMIS (Hazardous Materials Information System) | |
| HEALTH: | 1 |
| FLAMMABILITY: | 1 |
| REACTIVITY: | 0 |
| 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme | |

NOTICE: SDS is correct at date of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over-exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied); and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.