Nature's Way HS

Spill Response Fluid/Surface Washing Agent

Instructions

INTRODUCTION: Nature's Way HS is a concentrated, low foaming fluid for clean-up and biological elimination of misplaced petroleum/food hydrocarbons. It is listed by the U.S. EPA on the NCP Schedule and approved for use in California by the SCAQMD. It is a concentrate that can be diluted with COOL water before use to provide greater economy. Applications include any type hydrocarbon spill on most hard surfaces, including foliage, rocks, concrete, asphalt, soil, sand, and water. During cleaning, HS hydrocarbons are emulsified and encapsulated, inhibiting release of VOC's, eliminating sheens, and preventing adherence to surfaces downstream. Select microbes, added to HS during manufacture, continue to eliminate unwanted wastes long after the clean-up process is complete. Site appearance is restored and further environmental damage is stopped. In addition to spill clean up, HS can also used for daily cleaning of equipment, vehicles (painted or unpainted metals), and shop floors. It rinses easily with water, even if allowed to dry, leaving surfaces clean and residue free. HS is safe to handle and use. It is non-irritating to normal skin or respiratory tracts and harmless to birds, fish, animals, or vegetation. Excellent for cleaning oil-soaked wildlife.

EMERGENCY SPILL RESPONSE

APPLICATION OPTIONS: Nature's Way HS can be dispensed and applied through standard foam eductors systems, foam nozzles, proportioners, automatic sprayers, hand held pump-up sprayers, water pumps/ hoses, or extinguishers. It will not harm rubber, pump internals, tanks, or vessels any more than water alone. Fresh or salt water can be used for cleaning, however, bioremediation of wastes requires regular infusions of fresh water.

HARD SURFACE CLEANING: For surface cleaning of light oil or fuel, use at 3% to 6%. For higher viscosity hydrocarbons and/or to enhance bioremediation, use 1:10 parts water. For maximum encapsulation and VOC reduction, use 1: 3 parts water. Apply using high pressure or apply using low pressure followed by agitation with brushes, mops, or high-pressure rinse.

APPLICATION ON WATER: Absorb or vacuum excess hydrocarbons. Use from full strength to 1: 5 parts water. Apply using as much pressure as possible directly on floating oil. Use low -pressure spray to remove sheens. Provide mechanical and/or allow wave action to fully disperse.

BIOREMEDIATION: Absorb or vacuum excess hydrocarbons. Dilute 1: 10 with COOL water and apply liberally. Agitate with brooms or use high-pressure rinse to blend product with hydrocarbons. Water the area; avoid runoff. Repeat application of product and/or re-watering will stimulate microbial reproduction and yield faster results. For even faster results, dilute product with Nature's Way Biocatalyst with nutrients (see website) in lieu of regular water. For best results on dried out, crusted, or caramelized viscous oils, apply Nature's Way K-Gold (see website) prior to using HS.

VAPOR AND ODOR CONTROL: Dilute HS with 3 parts water. Apply liberally directly on contaminated surfaces, or if not accessible, pour into opening leading to contaminated surfaces. Some type agitation must be provided to insure that product and hydrocarbons become well mixed. Rinse or flush with water.

CLEANING AND DEGREASING/ PRESSURE WASHING

FLOORS	DECKS	WALLS	BILGES	LOADING RAMPS	VEHICLES
WALKWAYS	EQUIPMENT	TOOLS	MACHINERY	TANKS	ANIMAL QUARTERS

HS formulation is easy on skin and no more corrosive to metal, as is water alone. Clean concrete, asphalt, painted or unpainted metal, wood, fabrics, rubber, and other surfaces not harmed by water alone.

APPLICATION METHODS: Apply using pump-up sprayers, pumps, induction through pressure washers, mop buckets, automatic floor scrubbing machines (low foaming), chemical proportioners, drip systems, or pouring manually.

Will not harm gaskets, seals, pump or equipment internals and can be run through soap/chemical injectors on pressure washers.

DILUTION RATES (with water):

Heavy duty mopping (extra oily industrial or auto repair floors); heavy-duty pressure washing..... 8 to 16 oz per gallon
General pressure washing; floor scrubbers; light duty mopping (light oil films, dirt), odor control.....2 to 6 oz per gallon

Note: For difficult to remove compounds, we recommend Nature's Way K-Gold, a non-petroleum, organic solvent degreaser. It is safe to handle, virtually odorless, and non-flammable (flash point 285 degrees F.) For more information call Integra at 713-680-1234 or local distributor.

MSDS & INSTRUCTIONS

Nature's Way
HS

P/N H125S
Integra Environmental, Ltd.
5825 Centralcrest Houston, TX 77092
Emergency Phone: 713-680-1234

SECTION I

Identify: **Nature's Way HS**
Product Number: H125S **Spill Response Fluid with Microbes**

SECTION II

Hazardous Ingredients-Identify Information:

NO HAZARDOUS COMPONENTS

(OSHA-29 CFR-1910.1200) All ingredients are organic and completely biodegradable.

SECTION III

Physical/Chemical Characteristics:

pH: Approximate 9.0
Boiling Point: 100 deg C (210 deg F)
Specific Gravity: 0.98-1.04
Vapor Pressure: 17.5 mg Hg @ 80 deg F
Melting Point: NA
Vapor Density: 0.624 @ 80 deg F
Evaporation Rate: <1 (butyl/acetate=1)
Solubility in Water: Dispersible
Appearance and Odor: Slightly viscous pale green liquid, mild pleasant scent

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SECTION IV

Fire and Explosion Hazard Data:

Flash Point: NA

Volatile Organic Compounds (VOC'S): None

Extinguishing Media: NA
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION V

Reactivity Data:

Stability: Stable
Conditions to avoid: None
Incompatibility: Materials that react violently with water
Hazardous Decomposition or By-products: Carbon Dioxide
Hazardous Polymerization: Will not occur

SECTION VI

Health Hazard Data:

Primary routes of entry: Inhalation: No / Ingestion: Yes
Skin: Not considered an irritant to normal skin. If irritation does occur, rinse skin with water and discontinue use. If irritation persists, consult a physician.
*NOTE: MSDS data pertains to the product as dispensed from the container. Contains naturally occurring, non-pathogenic, aerobic microbes, specifically selected for their ability to transform petroleum or food based hydrocarbon compounds into carbon dioxide and water. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practiced.
Acute Effects of Overexposure: Product is considered non-toxic orally according to 16 CFR 1500 3 (Code of Federal Regulations 16. Federal Hazardous Substances Act Regulations Part 1500 3), however, no product should be intentionally ingested. Ingesting excessive amount of the product may cause complications. There are no known effects from acute overexposure to this product. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
Chronic Effects of Overexposure: There are [illegible] known effects from chronic exposure.

Emergency and First Aid procedures:

Inhalation: N/A
Skin Contact: Not a known irritant to normal skin, however if irritation occurs, flush skin with plenty of water and discontinue contact. If irritation persists, consult physician.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. A temporary haze in vision may occur. If haze persists or irritation develops, consult a physician.

SECTION VII

Precautions for Safe Handling and Use:

Handling: Use goggles to protect eyes, particularly if pressure washing, pumping, using high pressure air or around spray mist. Use gloves for extended or frequent contact.
Released or Spilled: Take action to avoid slipping, rinse area with water
Waste Disposal Method: In most areas, flushing into a sanitary sewer with plenty of water is permissible, however consult local, State, Federal agencies for specific requirements for your area.
Storage: Store container in a dry area at temperatures below 120 degrees F. Keep microbial enhancement powder dry, out of direct sunlight, and cool (if applicable).
Other Precautions: None

SECTION VIII

Control Measures:

Respiratory Protection: No special precautions are required, however avoid spray mists.
Ventilation: No special precautions are required.
Protective Gloves: Recommended for extended or prolonged contact.
Eye Protection: OSHA approved goggles recommended when using in high pressure equipment or pumps. OSHA approved safety glasses recommended for routine use, especially if contacts are worn.
Work/Hygienic Practices: Good housekeeping practices and "safety first" attitude help prevent accidents.

ON IX

Transportation Data:

DOT Proper shipping name: None
DOT Hazard Class: N/A
DOT I.D. Number: N/A
DOT Label/Placard: None (o/o/o/o)

ements, technical information and recommendations contained herein are based on available scientific tests or data that we believ ccuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which th roducts, or the products of other manufacturers in combination with our products, may be used. Integra Environmental, Ltc responsibility for loss or damage resulting from the improper use or handling of our products from incompatible produ failure to follow instructions, warnings and advisories, in the products label and Material Safety Data Sheet.

Updated: 08/01/05 (no changes) Symbols: NA=Not Applicable F=Fahrenheit C=Centigrade

WATER TREATMENT

REMOVE FLOATING OILS/HYDROCARBONS until only a sheen exists. Excessive amounts of floating oil or other hydrocarbons must be physically removed by skimming or absorbing. 1. Apply HS full strength directly onto sheen with as much pressure as possible. 2. Adequate circulation and/or aeration MUST be provided during the ENTIRE bioremediation process. Circulation - take suction from bottom and discharge at top. Aeration – position a diffused air source at the bottom along one side of tank or containment structure. 3. Add HS full strength to the water. DILTUION RATES (determined by level of contamination): **Low** (less than 10,000 ppm) add 1/10 of 1% HS to volume of water [i.e. .001 10,000 gal = 10 gallons product needed]. **Medium** (less than 100,000 ppm) add 2/10 of 1% or .002. **High** (up to 200,000 ppm) add 3/10 of 1% or .003. Note: For ongoing treatment (i.e., drip systems), amount of product necessary depends on volume of water flow and daily amount of hydrocarbons introduced - 2 oz to 1 gal per day. Call Integra for recommendations.

*Nature's Way HS is listed on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does not mean that EPA approves, recommends, licenses, certifies, or authorizes the use of Nature's Way HS on an oil discharge. This listing means only that data has been submitted to the EPA as required by subpart J of the National Contingency Plan, S. 300.915.

WARRANTY: Nature's Way products are manufactured in accordance with strict quality standards, however, due to the many variable and site specific conditions and requirements involved with the Bioremediation process, and the inability of Integra Environmental, Ltd. to control these specific conditions. All implied warranties, including, but not limited to, implied warranties or merchantability and fitness for a particular purpose are hereby disclaimed.

The Nature's Way Line of Products is covered by U.S. Patent number 5,561,059

ALL INGREDIENTS ARE COMPLETELY BIODEGRADABLE