DISPLEX™

BIODEGRADABLE ORGANIC SOLVENT, CLEANER, AND BREAKER FOR TREATMENT OF HYDROCARBON WASTE

PRODUCT DATA SHEET

- ***DISPLEX™*** is a highly concentrated aqueous based cleaner and degreaser for the removal of petroleum and organic based hydrocarbon accumulation on soils and surfaces.
- ***DISPLEX™*** is superior for routine cleaning operations in commercial and industrial establishments.
- ***DISPLEX™*** can be used on soil, asphalt, concrete, pilings, plant floors, offshore platforms, well heads, tank bottoms, metal parts, rocks and other surfaces.
- ***DISPLEX™*** is a biodegradable product that can be used in conjunction with soil remediation products such as ***ACCEL™*** and ***ReNew™***, for the bioremediation of hydrocarbon contaminated soils.
- ***DISPLEX™*** when used on a routine basis will help prevent oil and grease accumulation from establishing, resulting in a safer and cleaner environment.
- ***DISPLEX™*** applications and coverage amounts are dependent upon the quantity and type of contamination. For initial application and on heavily contaminated surfaces, such as thick or crusted oil and grease accumulation (tank bottoms, drill cuttings, soils, etc.), ***DISPLEX™*** should be diluted with fresh water at a ratio of 10:01 (10 parts water to 1part ***DISPLEX™***). For moderate accumulations (automotive repair shop floors, etc.) and with routine use, a dilution of 20: 1 is recommended. For light contamination (warehouse floors, etc.), a dilution ratio of 30: 1 is recommended.

PHYSICAL FORM

Light amber
liquid/citrus odor
Specific gravity .99 @ 20°c
pH 6.5 -7.5

PACKAGING

5 gallon pails
55 gallon drums

AREAS FOR USE

Soil, equipment, or surfaces contaminated with petroleum hydrocarbons

SAFETY

DISPLEX™ is a non-toxic, non-hazardous solution, and is not subject to DOT regulations. Protective clothing, rubber gloves, and either a face shield or safety goggles are recommended. For further details, follow the Safety Data Sheet.

TOOLS FOR APPLICATION

Spray tank, high pressure sprayer, steam cleaner, or any common method of liquid application

90034772

Call (501) 827-9982 for assistance

ENVIRONMENTAL RECOVERY
OILFIELD SERVICES & CONSULTING

DISPLEX™
SAFETY DATA SHEET

Issuing Date 10-0ec-2014 **Revision Date** 10-Dec-2014

Revision Number 0

1. IDENTIFICATION

GHS product identifier

Product Name *DISPLEX™*

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use For Soil Amendment

Uses Advised Against No information available

Distributor's Details

Environmental Recovery
7555 Katy Freeway #161
Houston, TX 77024

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 for US/703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This product is considered non-hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

1.
Serious Eye Damage/Eye Irritation Category 2

GHS Label elements. including precautionary statements

Emergency Overview

Signal Word **Warning**
Hazard Statements
May be harmful if swallowed
Causes serious eye irritation

Appearance: Colorless to Light Yellow

Physical State: Liquid

Precautionary Statements

Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.

General Advice

- None

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Storage

- None

Disposal

- None

Hazard Not Otherwise Classified (HNOC)

Not applicable

3. COMPOSITION INFORMATION ON INGREDIENTS

The composition of this product is proprietary. In the event of a medical emergency, compositional information will be revealed to a physician of nurse. **This product is Non-Hazardous as defined in 29 CFR 1910.1200.**

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Remove from exposure, lie down. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms/effects. acute and delayed

Most Important Symptoms/Effects Irritation

Indication of immediate medical attention and special treatment needed. if necessary

Notes to Physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical
No information available.

Explosion Data

Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spililleak. Do not touch or walk through spilled material.
Advice for emergency responders	Wear personal protective equipment.

Environmental Precautions

Environmental Precautions	Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Wear PPE

Conditions for safe storage. including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Appropriate engineering controls

Engineering Measures Provide local exhaust ventilations system When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with non-flexible side shields or chemical goggles A face shield should be worn if a potential for splashing or spraying exists.

Skin and Body Protection Wear appropriate protective, impervious clothing. Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction

Respiratory Protection A respirator is not indicated under normal operating conditions. Use of a NIOSH - approved respirator (N95 or greater) should be based on the presence of nuisance dusts.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	**Liquid**	**Appearance**	**Colorless/Light Yellow**
Odor	**Citris**	**Odor Threshold**	**No information available**

Property	Values	Remarks - Method
pH	6.5 – 7.5	None known
Melting Point/Range	Not determined	None known
Boiling Point/Boiling Range	118°C / 244°F	None known
Flash Point	>93°C (200°F).	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)		None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	< 0.1 mmHg @ 68°F (20°C)	None known
Vapor Density	No data available	None known
Specific Gravity	.99@25°C (77°F)	None known
Water Solubility	Completely soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	Not determined	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	1.79 mPa*s	None known

Flammable Properties Not flammable

Explosive Properties No data available

Oxidizing Properties No data available

Other information

VOC Content (%) Not applicable.

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation.
Eye Contact	Irritating to eyes.
Skin Contact	Slightly toxic by dermal absorption.
Ingestion	Moderately toxic by ingestion.

Symptoms related to the physical. chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.
Reproductive Toxicity	No information available.

STOT - single exposure	No information available.
STOT • repeated exposure	No information available.
Aspiration Hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

Bioaccumulation

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT - Not Regulated

15. REGULATORY INFORMATION

International Inventories

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSUNDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 3111312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	**Health Hazard 1**	**Flammability 0**	**Instability 0**	**Physical and Chemical Hazards -**
HMIS	**Health Hazard 1**	**Flammability 0**	**Physical Hazard 0**	**Personal Protection X**

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Revision Note	Initial Release.

General Disclaimer

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