

# SAFETY DATA SHEET

## HC350LR™

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### SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

**COMPANY:**

ENVIROLOGIC BIO-BASED TECHNOLOGIES

**24 HOUR EMERGENCY RESPONSE  
INFORMATION:**

**PRODUCT:** HC350LR™

**DESCRIPTION & USE:** BIO-REMEDIAL, MICROBIAL SOIL & WATER REMEDIATION AGENT FOR HYDROCARBON CONTAMINATION

**SYNONYMS:** HYDROCARBON REMEDIATION AGENT

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

**GENERAL CHEMICAL DESCRIPTION:** AN AQUEOUS-WATER BASED BLEND OF SINGLE-CELLED MICRO-ORGANISMS IN SOLUTION.

**COMPONENTS:**

**CAS-NO.**

**CONCENTRATION**

**(WT. %)**

BACTERIAL CULTURES

NOT APPLICABLE

> 4 - < 6

WATER

7732-18-5

> 88 - < 91

### SECTION 3 – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**STATE:** LIQUID

**ODOR:** ORGANIC ODOR

**COLOR:** LIGHT TAN

**ROUTES OF ENTRY:** SKIN & EYE CONTACT, INHALATION, INGESTION

**POTENTIAL HEALTH ACUTE EFFECTS:**

**POTENTIAL CHRONIC HEALTH EFFECTS:** NONE KNOWN

**EFFECTS OF OVEREXPOSURE:** NONE

**INHALATION:** NO KNOWN PROBLEM

**INGESTION:** MAY CAUSE MILD TRANSIENT GASTROINTESTINAL IRRITATION.

**EYE CONTACT:** MAY CAUSE MILD TRANSIENT IRRITATION. NOT CLASSIFIED

**SKIN CONTACT:** NOT CLASSIFIED AS AN SKIN IRRITANT

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**SECTION 4 – FIRST AID MEASURES**

**AFTER INHALATION:** SHOULD NOT CAUSE ANY INHALATION PROBLEMS.

**AFTER SKIN CONTACT:** SHOULD NOT CAUSE ANY SKIN PROBLEMS. RINSE SKIN WITH PLAIN WATER.  
IF PROBLEM PERSISTS SEEK MEDICAL ATTENTION.

**AFTER EYE CONTACT:** RINSE IMMEDIATELY WITH PLAIN WATER, ALSO UNDER EYELIDS UNTIL IRRITATION  
SUBSIDES.

IF FURTHER IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**AFTER INGESTION:** DO NOT INDUCE VOMITING. VICTIM SHOULD DRINK SEVERAL GLASSES OF WATER TO  
DILUTE THE INGESTED PRODUCT. IF VOMITING OCCURS NATURALLY, KEEP AIRWAY  
CLEAR. IF FURTHER PROBLEMS OCCUR, SEEK MEDICAL ATTENTION.

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**SECTION 5 – FIRE FIGHTING MEASURES**

**FLASH POINT:**

DOES NOT APPLY TO THIS PRODUCT

**SUITABLE EXTINGUISHING MEDIA:**

DOES NOT APPLY TO THIS PRODUCT

**UNUSUAL FIRE OR EXPLOSION HAZARDS**

DOES NOT APPLY TO THIS PRODUCT

**HAZARDOUS COMBUSTION PRODUCTS**

DOES NOT APPLY TO THIS PRODUCT

**ADDITIONAL FIREFIGHTING ADVISE**

DOES NOT APPLY TO THIS PRODUCT

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:**

NONE NEEDED

**ENVIRONMENTAL PRECAUTIONS:**

NONE NEEDED

**METHODS FOR CLEANING & TAKE –UP**

CLEAN WITH WATER. MAY BE RINSED AWAY WITHOUT ANY ENVIRONMENTAL IMPACT.

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**SECTION 7 – HANDLING & STORAGE****HANDLING:**

NO SPECIAL HANDLING IS NEEDED. HANDLE WITH CARE AS WITH ANY LIQUID PRODUCT.

**STORAGE:**

STORE IN ORIGINAL CONTAINER WITH CAP OR CLOSURE ON TIGHTLY. STORE IN AN AREA THAT DOES NOT

EXCEED 130°F. NOR GO BELOW 20°F. FOR BEST PRODUCT EFFECTIVENESS. THE ABOVE IS ONLY FOR THE BEST

USE OF PRODUCT & DOES NOT CONSTITUTE A HAZARD IF THE ABOVE IS NOT FOLLOWED

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**SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION****INDICATION FOR SYSTEM DESIGN:**

NO SPECIAL SYSTEMS NEEDED. ADEQUATE VENTILATION IS SUGGESTED FOR PERSONAL COMFORT.

**PERSONAL PROTECTION MEASURES:**

NO SPECIAL SYSTEMS NEEDED. USE OF NIOSH/MSHA RESPERATOR MAY BE USED FOR INDIVIDUAL PERSONAL COMFORT, IF NEEDED, ON AN INDIVIDUAL BASIS.

**HAND PROTECTION:**

NO SPECIAL SYSTEMS NEEDED. USE OF PLASTIC OR RUBBER GLOVES MAY BE USED FOR INDIVIDUAL PERSONAL COMFORT, IF NEEDED, ON AN INDIVIDUAL BASIS.

**EYE PROTECTION:**

IT IS RECOMMENDED THAT PROTECTIVE EYEWEAR BE USED IN ORDER TO AVOID PRODUCT CONTACTING EYES.

WEAR GOGGLES OR FACE SHIELD

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**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES****GENERAL DESCRIPTION:**

STATE: LIQUID, TRANSLUCENT

ODOR: MILD ORGANIC

COLOR: LIGHT TAN

**DESIGNATION****VALUE****METHOD**

pH: 6.9 to 7.2

NO INFORMATION

BOILING POINT: 212° F

NO INFORMATION

MELTING POINT: N/A

NO INFORMATION

VAPOR PRESSURE: MM/HG: <0.01 @ 20° C.

NO INFORMATION

SPECIFIC GRAVITY: H<sub>2</sub>O=1 1.00 +/-0.01

NO INFORMATION

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**SECTION 10 – STABILITY & REACTIVITY****REACTIVITY**

|                                          |                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MATERIALS TO AVOID:</b>               | STRONG OXIDIZING AGENTS & STRONG ACIDS                                                                                                        |
| <b>STABILITY:</b>                        | STABLE                                                                                                                                        |
| <b>HAZARDOUS POLYMERIZATION:</b>         | NONE, WILL NOT OCCUR                                                                                                                          |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> | NONE                                                                                                                                          |
| <b>CONDITIONS TO AVOID:</b>              | DO NOT QUICK FREEZE OR EXPOSE TO TEMPERATURES. OVER 150° F.. THESE TEMPERATURES POSE NO HAZARD BUT THEY ARE NOT COMPATIBLE WITH THIS PRODUCT. |

**SECTION 11 – TOXICOLOGICAL INFORMATION**

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| <b>ACUTE ORAL TOXICITY:</b> | > 500 mg/kg BODY WEIGHT (EXPERIMENT)<br>METHOD: LD50 |
| <b>SKIN IRRITATION:</b>     | NOT IRRITATING (EXPERIMENT)<br>METHOD: DRAIZE TEST   |
| <b>EYE IRRITATION:</b>      | MODERATELY IRRITATING<br>METHOD: DRAIZE TEST         |

**SECTION 12 – ECOLOGICAL INFORMATION**

|                                         |                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>ACUTE FISH TOXICITY:</u></b>      | LC50 > 1 - <= 10 mg PRODUCT/LITER (ANALOGY)                                                                                                                                                                                             |
| <b><u>ACUTE BACTERIAL TOXICITY:</u></b> | ECO > 100 mg PRODUCT/LITER (ANALOGY)                                                                                                                                                                                                    |
| <b><u>PRIMARY DEGRADATION:</u></b>      | ACCORDING TO THE REQUIREMENTS OF THE EU MANDATORY STANDARDS FOR DETERGENTS 82/242 (NONIONIC SURFACTANTS) & 82/243/EEC (ANIONIC SURFACTANTS) THE BIO-SURFACTANTS CONTAINED IN THIS PRODUCT ARE BIODEGRADABLE TO AT LEAST 90% ON AVERAGE. |

**SECTION 13 – DISPOSAL CONSIDERATIONS**

|                                          |                                                               |
|------------------------------------------|---------------------------------------------------------------|
| <b><u>WASTE DISPOSAL OF PRODUCT:</u></b> | THERE ARE NO WASTE DISPOSAL CONSIDERATIONS WITH THIS PRODUCT. |
|                                          | USER SHOULD CONSIDER AREAS THAT MAY BE IMPACTED BY            |

THIS PRODUCT WHEN DECIDING ON DISPOSAL METHODS.  
BECAUSE OF THE NATURE OF THIS PRODUCT, IT MAY BE  
DISPOSED OF USING THE BEST METHOD TO **ENHANCE** THE  
ENVIRONMENT.

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## **SECTION 14 - TRANSPORT INFORMATION**

### **GENERAL INFORMATION:**

DOT: NOT REGULATED   UN: NOT REGULATED  
ACCORDING TO: RID, ADR, ADN, IMDG, IATA-DGR, CFR & TDG

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## **SECTION 15 – REGULATORY INFORMATION**

### **TSCA INVENTORY STATUS:**

THIS PRODUCT AND/ OR ALL OF ITS COMPONENTS ARE EITHER  
INCLUDED ON OR EXEMPT FROM THE TSCA INVENTORY OF  
CHEMICAL SUBSTANCES.

SARA 311/312 HAZARD CATEGORIES:                      NONE.  
TSCA 12(b) COMPONENTS:                                NONE.  
SARA 313 TOXIC CHEMICALS:                            NONE.  
SARA 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE.  
CERCLA HAZARDOUS CHEMICALS:                    NONE.  
CALIFORNIA PROPOSITION 65:                            NO LISTED CHEMICALS ARE PRESENT.

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## **SECTION 16 – OTHER INFORMATION**

| <b>NFPA RATING (US)</b> | <b>VALUE</b> |
|-------------------------|--------------|
| HEALTH                  | 1            |
| FIRE                    | 0            |
| REACTIVITY              | 0            |
| SPECIAL HAZARD          | 0            |

| <b>HMIS RATING (US)</b> | <b>VALUE</b> |
|-------------------------|--------------|
|-------------------------|--------------|

|                |   |
|----------------|---|
| HEALTH         | 1 |
| FIRE           | 0 |
| REACTIVITY     | 0 |
| SPECIAL HAZARD | 0 |

HC350LR™ IS A REGISTERED TRADEMARK OF ENVIROLOGIC BIO-BASED TECHNOLOGIES, INC.

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REVISION DATE: 01/05/2015

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