

SAFETY DATA SHEET

NavalKleen™

REVISION DATE: 11/02/2015
VERSION: 1.0

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SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

COMPANY:
ENVIROLOGIC BIO-BASED TECHNOLOGIES
4901 UMBRIA ST., Philadelphia, PA 19128

24 HOUR EMERGENCY RESPONSE INFORMATION:
EMERGENCY: (866) 678-8888
INFORMATION: (215) 930-0111

PRODUCT: NavalKleen™

DESCRIPTION & USE: BIO-REMEDIAL BILGE CLEANER-DEGREASER

SYNONYMS: CLEANER-DEGREASER

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL CHEMICAL DESCRIPTION: AN AQUEOUS-WATER BASED SOLUTION OF SINGLE-CELLED MICRO-ORGANISMS IN A SOLUTION OF MICRONUTRIENTS, EXTRACTS & BIO-SURFACTANTS WITH NATURAL FOOD COLOR ADDED FOR IDENTIFICATION.

<u>COMPONENTS:</u>	<u>CAS-NO.</u>	<u>CONCENTRATION (WT. %)</u>
BACTERIAL CULTURES	NOT APPLICABLE	> 4 - < 6
ALKYLPOLYGLYCOSIDE C9-11	132778-08-6	> 4 - < 7
WATER	7732-18-5	> 88 - < 91

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

STATE: LIQUID
ODOR: CITRUS
COLOR: AQUA
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

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

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.

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

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

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

GENERAL DESCRIPTION:

STATE: LIQUID, GENERALLY CLEAR
ODOR: MILD CITRUS
COLOR: AQUA

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 ₂ O=1 1.00 +/-0.01	NO INFORMATION
SOLUBILITY IN WATER:	COMPLETE, ALL PROPORTIONS	NO INFORMATION

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SECTION 10 – STABILITY & REACTIVITY

REACTIVITY

MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS & STRONG ACIDS
STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	NONE, WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS:	NONE
CONDITIONS TO AVOID:	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

ACUTE ORAL TOXICITY:	> 500 mg/kg BODY WEIGHT (EXPERIMENT) METHOD: LD50
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SKIN IRRITATION:	NOT IRRITATING (EXPERIMENT) METHOD: DRAIZE TEST
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EYE IRRITATION:	MODERATELY IRRITATING METHOD: DRAIZE TEST
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SECTION 12 – ECOLOGICAL INFORMATION

ACUTE FISH TOXICITY:	LC50 > 1 - <= 10 mg PRODUCT/LITER (ANALOGY)
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ACUTE BACTERIAL TOXICITY:	ECO > 100 mg PRODUCT/LITER (ANALOGY)
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PRIMARY DEGRADATION:	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.
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SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL OF PRODUCT:	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:	NOT HAZARDOUS. 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.
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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

NFPA RATING (US)	VALUE
HEALTH	1
FIRE	0
REACTIVITY	0
SPECIAL HAZARD	0

HMIS RATING (US)	VALUE
HEALTH	1
FIRE	0
REACTIVITY	0
SPECIAL HAZARD	0

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EnviroLogic-SpillAway

4901 Umbria St.

Philadelphia, PA 19128 PHONE: (215) 930-0111

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PREPARED BY: MARK WEINBERG, VICE PRES.