

MATERIAL SAFETY DATA SHEET

Product Name: OLFactor

SECTION 1

MATERIAL IDENTIFICATION

PRODUCT NAME/DESCRIPTION: OLFactor

DISTRIBUTED / MANUFACTURED BY:

ENVIRO CLEAN SERVICES, L.L.C.

DATE: 5/27/2008

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OKLAHOMA CITY, OK

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SECTION 2

HAZARDOUS COMPONENTS

OSHA (ACGIH) EXPOSURE LIMIT

| CHEMICAL NAME | %W/W | CAS NUMBER | TLVs(ACGIH) | | | |
|---|-------|------------|-------------|-------|--------------|--------------|
| | | | TWA ppm | mg/m3 | STEEL ppm | mg/m3 Other1 |
| N-Ethyl-N-Soya Morpholinium Ethosulfate | <10.0 | 61791-34-2 | | | | |

(PROPRIETARY FORMULATION)

SECTION 3

HEALTH HAZARDS

IRRITATION SKIN SEVERE MODERATE
 EYE SEVERE MODERATE MILD (TRANSIENT)

CORROSIVITY SKIN 4HRS. (DOT) 24 HRS. (CPSC)
 EYE MAY CAUSE BLINDNESS

SENSITIZATION SKIN RESPIRATORY ALLERGEN OTHER: NOT KNOWN

INHALATION EFFECTS NARCOTIC EFFECT CYANOSIS ASPHYXIAN OTHER: NOT KNOWN

LUNG EFFECTS (SPECIFY):

None Known

OTHER (SPECIFY):

REPEATED CONTACT SKIN DEFATTER OTHER (SPECIFY): NONE KNOWN

SECTION 4

FIRST AID

INGESTION

INDUCE VOMITING DON'T INDUCE VOMITING GIVE PLENTY OF WATER GET MEDICAL ATTENTION

NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON

Product Name: OLFactor

DERMAL

- FLUSH WITH SOAP AND WATER GET MEDICAL ATTENTION CONTAMINATED CLOTHING - REMOVED AND LAUNDRER CONTAMINATED SHOE - DESTROY

OTHER (SPECIFY):

NONE KNOWN

EYE CONTACT

- FLUSH WITH WATER FOR 15 MINUTES GET MEDICAL ATTENTION OTHER (SPECIFY):
LIFE AND SEPERATE LIDS FOR PROPER FLUSHING

INHALATION

- REMOVE TO FRESH AIR IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION GIVE OXYGEN GET MEDICAL ATTENTION

OTHER (SPECIFY):

NONE KNOWN

SECTION 5 FIRE AND EXPLOSION DATA

CHARACTERISTICS:

FLASH POINT NA
FLASH POINT METHOD(S) NA
UPPER EXPLOSION LIMIT (UEL) NA
LOWER EXPLOSION LIMIT (UEL) NA
AUTOIGNITION TEMPERATURE NA
FIRE HAZARD CLASSIFICATION (OSHA/NFPA) 1

EXTINGUISHING MEDIA

- WATER SPRAY WATER FOG WATER STREAM CO2 DRY CHEMICAL ALCOHOL FOAM
 FOAM EARTH OR SAND AS REQUIRED FOR FIRE BEING FOUGHT

SPECIAL FIRE FIGHTING PROCEDURES

- DON'T ENTER BUILDING ALLOW FIRE TO BURN WATER MAY CAUSE FROTHING DON'T USE WATER USE SELF-CONTAINED BREATHING APPRATUS

OTHER (SPECIFY): NONE KNOWN

SPECIAL FIRE FIGHTING PROCEDURES

- DUST EXPLOSION HAZARD SENSITIVE TO SHOCK CONTAMINATION TEMPERATURE

OTHER (SPECIFY): NONE KNOWN

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEP TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

- FLUSH WITH WATER ABSORB WITH SAND OF INERT MATERIAL NEUTRALIZE SWEEP OR SCOOP UP AND REMOVE
 KEEP UPWIND PREVENT SPILLS DISPOSE OF PROMTLY

OTHER (SPECIFY): SEE SECTION 13

SECTION 7

HANDLING AND STORAGE

PRECAUTIONARY LABELING

- WASH AFTER HANDLING
- DON'T GET IN EYES, SKIN, CLOTHING
- DON'T BREATHE DUST, VAPOR, GAS
- KEEP CONTAINER CLOSED
- KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES
- STORE IN TIGHTLY CLOSED CONTAINERS
- DON'T STORE NEAR COMBUSTIBLES
- KEEP FROM CONTACT WITH CLOTHING
- EMPTY CONTAINER MAY CONTAIN HAZARDOUS RESIDUE
- USE EXPLOSION PROOF EQUIPMENT
- OTHER (SPECIFY):
NONE KNOWN

OTHER HANDLING AND STORAGE CONDITIONS

DO NOT SMOKE WHEN HANDLING CHEMICALS. KEEP OUT OF REACH OF CHILDREN.

SECTION 8

PERSONAL PROTECTION/EXPOSURE CONTROLS

VENTILATION REQUIREMENTS - ALWAYS KEEP EXPOSURE BELOW PERMISSIBLE EXPOSURE LIMITS

- CONSULT AN INDUSTRIAL HYGIENIST
- LOCAL EXHAUST
- USE ADEQUATE VENTILATION
- CHECK FOR AIR CONTAMINANT

OTHER (SPECIFY): NONE KNOWN

- EYE**
- FACE SHIELD AND GOGGLES
 - SAFETY GLASSES
 - GOGGLES

- HAND**
- BUTYL RUBBER
 - POLYVINYL ALCOHOL
 - POLYVINYL CHLORIDE
 - POLY-ETHYLENE
 - NATURAL RUBBER
 - NEOPRENE
 - OTHER (SPECIFY): NONE KNOWN

- RESPIRATORY**
- SELF-CONTAINED
 - SUPPLIED AIR
 - CAN OR CARTRIDGE GAS OR VAPOR
 - FILTER-DUST, FUME, MIST
 - OTHER (SPECIFY): NOT NORMALLY REQUIRED

OTHER PROTECTIVE EQUIPMENT

- RUBBER BOOTS
- APRON
- OTHER (SPECIFY): SAFETY SHOWER AND EYEWASH

SECTION 9

PERSONAL PROTECTION/EXPOSURE CONTROLS

| | |
|--|-----------------|
| PHYSICAL FORM | LIQUID, CLEAR |
| COLOR | LIGHT AMBER |
| ODOR | FRAGRANCED |
| PH | 8.8 +/- .20 |
| VAPOR PRESSURE (mm Hg) | NA |
| VAPOR DENSITY (AIR = 1) | NA |
| BOILING POINT | >200 deg F |
| FREEZING/MELTING POINT | 30 deg F |
| SOLUBILITY IN WATER | COMPLETE |
| SPECIFIC GRAVITY (WATER = 1) | 1.02 +/- .01 |
| EVAPORATION RATE (BUTYLACETATE = 1) | > 1 (WATER = 1) |
| VISCOSITY (CPS) | NA |
| MOLECULAR WEIGHT | NE |

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NA = NOT APPLICABLE

NE = NOT ESTABLISHED

SECTION 10

STABILITY AND REACTIVITY

STABILITY

STABLE

UNSTABLE

CONDITIONS CONTRIBUTING TO INSTABILITY

THERMAL
DECOMPOSITION

PHOTO
DEGRADATION

POLYMERIZATION

CONTAMINATION

OTHER (SPECIFY): NONE KNOWN

INCOMPATIBILITY - AVOID CONTACT WITH

STRONG ACIDS

STRONG ALKALIS

STRONG OXIDIZERS

OTHER (SPECIFY): NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (LIST)

NONE KNOWN

CONDITIONS TO AVOID

HEAT

OPEN FLAMES

SPARKS

IGNITION SOURCES

OTHER (SPECIFY): NONE KNOWN

SECTION 11

TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY EFFECTS DATA

NA

IRRITATION EFFECTS DATA

ORAL: MODERATE IRRITATION

DERMAL: MAY CAUSE REDNESS, EDEMA, DRYING OF SKIN

EYE: MODERATE IRRITATION

INHALATION:

OTHER ACUTE EFFECTS

NONE KNOWN

CHRONIC/SUBCHRONIC DATA

NONE KNOWN

SECTION 12

ECOLOGICAL INFORMATION

ECOTOXICITY

NOT DETERMINED

ENVIRONMENTAL FATE

NOT DETERMINED

ADDITION INFORMATION

NOT AVAILABLE

SECTION 13

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

SECTION 14

TRANSPORT INFORMATION

NOT REGULATED/NON-HAZARDOUS

SECTION 15

REGULATORY INFORMATION

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:

NA

SARA 312 HAZARD CATEGORY:

NA

SARA 313 TOXIC CHEMICALS LIST:

NA

CERCLA (COMPREHENSIVE ENVIROMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT):

NA

RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) LISTED HAZARDOUS WASTES:

NA

CWA (CLEAN WATER ACT) LISTED SUBSTANCES:

NA

FDA (FOOD AND DRUG ADMINISTRATION):

NA

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE LISTED.

NFPA HAZARD INFORMATION SIGN

1 HEALTH HAZARD (BLUE DIAMOND)

- 4 - DEADLY
- 3 - EXTREME DANGER
- 2 - HAZARDOUS
- 1 - SLIGHTLY HAZARDOUS
- 0 - NORMAL MATERIAL

0 FIRE HAZARD (RED DIAMOND)

- FLASH POINTS:
- 4 - BELOW 73 F
 - 3 - BELOW 100 F
 - 2 - BELOW 200 F
 - 1 - ABOVE 200 F
 - 0 - WILL NOT BURN

0 REACTIVITY HAZARD (YELLOW DIAMOND)

- 4 - MAY DETONATE
- 3 - SHOCK AND HEAT MY DETONATE
- 2 - VIOLENT CHEMICAL CHANGE
- 1 - UNSTABLE IF HEATED
- 0 - STABLE

SPECIFIC HAZARD (WHITE DIAMOND)

- OXY OXIDIZER
- ACID ACID
- ALK ALKALI
- COR CORROSIVE
- W USE NO WATER

SECTION 16

INTERNATIONAL REGULATIONS

CANADA

DSL:

NA

WHMIS HAZARD CLASSIFICATIONS:

NA

WHMIS TRADE SECRET REGISTRY NUMBER(S):

NA

WHMIS HAZARDOUS INGREDIENTS:

NA

WHMIS SYMBOLS:

NA

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS MASTER INVENTORY:

NA

EEC PRIMARY RISK SYMBOL:

NA

EEC RISK AND SAFETY PHRASES:

NA

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HOLDING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: *Jeff Schulhoff*