



# MATERIAL SAFETY DATA SHEET

| SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION   |            |  |           |   |                                     |
|--|------------|--|-----------|---|-------------------------------------|
| <b>PRODUCT NAME:</b> Envirox H2Orange2 Concentrate 117   |            | <b>DATE:</b> October 10, 2008  |           |   |                                     |
| <b>PRODUCT NUMBER:</b> 117   |            |  |           |   |                                     |
| <b>TRADE NAME:</b> Envirox H2Orange2 Concentrate<br><b>GENERAL USE:</b> Water Soluble Cleaner<br><b>CHEMICAL FAMILY:</b> Surfactant Blend<br><b>PRODUCT DESCRIPTION:</b><br>Amber/Clear Liquid with Citrus Odor.   |            |  |           |   |                                     |
| <b>MANUFACTURER:</b><br><b>EnvirOx LLC</b>   |            | <b>DATE PREPARED:</b> October 10, 2008<br><b>SUPERSEDES:</b> November 7, 2007      |           |   |                                     |
| <b>ADDRESS (NUMBER, STREET, P.O. BOX)</b><br>P.O. Box 2327, 1938 E. Fairchild St.  |            | <b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b><br>1-217-442-8596       |           |   |                                     |
| <b>(CITY, STATE AND ZIP CODE)</b><br>Danville, IL. 61834-2327  |            | <b>COUNTRY</b><br>USA  |           | <b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b><br> <b>1-800-255-3924</b> <b>01-813-248-0585</b><br>North America Toll Free    International |                                     |
| SECTION 2 - HAZARDOUS INGREDIENTS  |            |  |           |   |                                     |
| Hazardous Components   | % (Weight) | CAS #  | EINECS #  | Hazard Symbol   | RISK PHRASES (Full Text Section 15) |
| <b>Hydrogen Peroxide</b>   | <b>1-5</b> | <b>7722-84-1</b>   | <b>NR</b> | <b>NR</b>   | <b>NR</b>                           |
| <b>Proprietary non-hazardous ingredients not listed.</b>   |            |  |           |   |                                     |
| <b>Notes:</b> All SARA Title III materials have been reported. All ingredients contained in this formula are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory.   |            |  |           |   |                                     |
| SECTION 3 - HAZARDS IDENTIFICATION   |            |  |           |   |                                     |
| <b>INHALATION:</b><br>Not expected to be a significant route of exposure.  |            |  |           |   |                                     |
| <b>SKIN:</b><br>May cause skin irritation if left on for long periods of time. Dry skin or stinging sensation.   |            |  |           |   |                                     |
| <b>EYES:</b><br>May cause eye irritation.  |            |  |           |   |                                     |
| <b>INGESTION:</b><br>May cause stomach upset. Product is only mildly toxic by ingestion.   |            |  |           |   |                                     |
| <b>CARCINOGENICITY:</b>  |            |  |           |   |                                     |
| NTP? <b>NO</b>   |            | IARC MONOGRAPHS? <b>NO</b>   |           | OSHA REGULATED? <b>NO</b>   |                                     |
| CALIFORNIA, Prop.65? <b>NO</b>   |            |  |           |   |                                     |
| SECTION 4 - FIRST AID MEASURES   |            |  |           |   |                                     |
| <b>INHALATION:</b><br>Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-mouth, if possible. Call a poison control center or doctor for further treatment advice.   |            |  |           |   |                                     |
| <b>EYES:</b><br>Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.   |            |  |           |   |                                     |
| <b>SKIN:</b><br>Take off contaminated clothing. Rinse skin immediately with plenty of water. Call a poison control center or doctor for treatment advice.  |            |  |           |   |                                     |
| <b>INGESTION:</b><br>Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. |            |  |           |   |                                     |
| SECTION 5 - FIRE FIGHTING MEASURES   |            |  |           |   |                                     |
| <b>GENERAL HAZARDS:</b><br>Flash Point 147 °F - doesn't support sustained combustion per ASTM Test D-4206 testing at 120 °F. Classified as a non-combustible mixture under 49CFR173.120(b)(3). Product may be considered non-flammable / non-combustible.                                    |            |  |           |   |                                     |
| <b>EXTINGUISHING MEDIA:</b><br>Carbon Dioxide or Dry Chemical to fight surrounding fire.   |            |  |           |   |                                     |
| <b>FIRE FIGHTING PROCEDURES:</b><br>None applicable. Product is an oxidizer and can promote combustion of combustible materials.   |            |  |           |   |                                     |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b><br>None applicable.   |            |  |           |   |                                     |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b><br>None known.   |            |  |           |   |                                     |
| SECTION 6 - ACCIDENTAL RELEASE MEASURES  |            |  |           |   |                                     |
| <b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:</b><br>Flush spill area with copious amounts of water to sanitary sewer. Product is completely biodegradable!  |            |  |           |   |                                     |

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| <b>PRODUCT NUMBER:</b> 117  |                   |  |                |  |   |           |          |            |
| <b>SECTION 7 - HANDLING AND STORAGE</b>   |                   |  |                |  |   |           |          |            |
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:<br>Store indoors. Store away from strong reducing agents.  |                   |  |                |  |   |           |          |            |
| <b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>  |                   |  |                |  |   |           |          |            |
| HAZARDOUS COMPONENTS  | NIOSH             |  |                | ACGIH  |   | OSHA      |          |            |
|   | TWA ppm           | TWA mg/m3  | STEL ppm       | STEL mg/m3   | TLV/TWA ppm                                   | TWA mg/m3 | TWA ppm  | PEL mg/m3  |
| <b>Hydrogen Peroxide</b>  | <b>1</b>          | <b>1.4</b>   | <b>75 IDLH</b> |  | <b>1</b>                                      |           | <b>1</b> | <b>1.4</b> |
| <b>PERSONAL PROTECTION</b>  |                   |  |                |  |   |           |          |            |
| RESPIRATORY PROTECTION:<br>Local Exhaust Ventilation is OK. NIOSH/OSHA approved respirators may be used if respiratory irritation occurs.                                 |                   |  |                |  |   |           |          |            |
| PROTECTIVE GLOVES:<br>Impervious protective gloves are recommended - especially for sustained contact.  |                   |  |                |  |   |           |          |            |
| EYE PROTECTION:<br>Safety glasses with side shields are recommended where a splash hazard exists and a good industrial practice.  |                   |  |                |  |   |           |          |            |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT:<br>Not generally required. An impervious apron is suggested for situations where a splash hazard exists.                          |                   |  |                |  |   |           |          |            |
| WORK / HYGIENIC PRACTICES:<br>Wash hands with soap and water after contact. Use emollient cleanser for mild dryness of skin.  |                   |  |                |  |   |           |          |            |
| <b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>   |                   |  |                |  |   |           |          |            |
| APPEARANCE AND ODOR<br><b>Clear liquid with a pleasant citrus odor.</b>   |                   |  |                | VAPOR PRESSURE<br><b>NE</b>                                    |   |           |          |            |
| pH<br><b>4.0-4.2</b>  |                   |  |                | SPECIFIC GRAVITY (WATER = 1)<br><b>1.019</b>                   |   |           |          |            |
| BOILING POINT / BOILING RANGE<br><b>212°F</b>   |                   |  |                | SOLUBILITY IN WATER<br><b>Completely Soluble.</b>              |   |           |          |            |
| FLASH POINT<br><b>147°F (PMCC) [non-combustible per 49CFR173.120(b)(3)]</b>   |                   |  |                | VISCOSITY<br><b>NA</b>   |   |           |          |            |
| FLAMMABLE LIMITS<br>LEL: <b>NA</b> UEL: <b>NA</b>   |                   |  |                | VAPOR DENSITY (AIR = 1)<br><b>NA</b>                           |   |           |          |            |
| AUTO-IGNITION TEMPERATURE<br><b>NA</b>  |                   |  |                | EVAPORATION RATE (WATER = 1)<br><b>NA</b>                      |   |           |          |            |
| <b>SECTION 10 - STABILITY AND REACTIVITY</b>  |                   |  |                |  |   |           |          |            |
| STABILITY<br>STABLE X   |                   |  |                | CONDITIONS TO AVOID:<br><b>None known.</b>                     |   |           |          |            |
| INCOMPATIBILITY (MATERIALS TO AVOID):<br><b>Strong oxidizers, permanganates, reducing agents, acids.</b>  |                   |  |                |  |   |           |          |            |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS:<br><b>None known.</b>  |                   |  |                |  |   |           |          |            |
| HAZARDOUS POLYMERIZATION:<br><b>Will not occur.</b>   |                   |  |                | CONDITIONS TO AVOID:<br><b>None related to polymerization.</b> |   |           |          |            |
| <b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>   |                   |  |                |  |   |           |          |            |
| Hazardous Components  | CAS #<br>EINECS # | LD50 of Ingredient<br>(Specify Species and Route)                      |                |  | LC50 of Ingredient<br>(Specify Species)       |           |          |            |
| <b>Hydrogen Peroxide</b>  | <b>7722-84-1</b>  | <b>Oral, rat: LD50 = 376 mg/kg;<br/>Oral, mouse: LD50 = 2000 mg/kg</b> |                |  | <b>Inhalation, rat: LC50 =<br/>2000 mg/m3</b> |           |          |            |
|   | <b>NR</b>         |  |                |  |   |           |          |            |
| <b>SECTION 12 - ECOLOGICAL INFORMATION</b>  |                   |  |                |  |   |           |          |            |
| No ecological information is available for this blended product; it is known to be biodegradable, however, based on the ingredients used in its manufacture.              |                   |  |                |  |   |           |          |            |
| <b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>   |                   |  |                |  |   |           |          |            |
| WASTE DISPOSAL METHOD:<br>Biodegradable product may be flushed to sewage treatment facility or landfill. Dispose of container according to State, Federal and Local laws. |                   |  |                |  |   |           |          |            |

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| <b>PRODUCT NUMBER:</b> | 117                               |              |                  |

## SECTION 14 - TRANSPORT INFORMATION

|   |   |  |  |
|---|---|--|--|
| <b>PROPER SHIPPING NAME:</b> Cleaning Solution not regulated. |   |  |  |
| <b>DOT HAZARD CLASS / Pack Group:</b> Not regulated.          | <b>IATA HAZARD CLASS / Pack Group:</b> Not regulated. |  |  |
| <b>REFERENCE:</b> None  | <b>IMDG HAZARD CLASS:</b> Not regulated.              |  |  |
| <b>UN / NA IDENTIFICATION NUMBER:</b> None                    | <b>RID/ADR Dangerous Goods Code:</b> None             |  |  |
| <b>LABEL:</b> None  | <b>UN TDG Class / Pack Group:</b> None                |  |  |
| <b>HAZARD SYMBOLS:</b> None                                   | <b>Hazard Identification Number (HIN):</b> None       |  |  |

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## SECTION 15 - REGULATORY INFORMATION

|  |                                       |
|--|---------------------------------------|
| <b>TSCA (USA - Toxic Substance Control Act):</b> All components are listed.                          |                                       |
| <b>SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):</b>                          |                                       |
| Acute Health: <b>Yes</b>   | Chronic Health: <b>No</b>             |
| Fire: <b>No - See Section 5</b>  | Sudden Release of Pressure: <b>No</b> |
| Reactive: <b>No</b>  |                                       |
| <b>313 REPORTABLE INGREDIENTS:</b> None  |                                       |
| <b>CERCLA (USA - Comprehensive Response Compensation and Liability Act):</b> No                      |                                       |
| <b>California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:</b> No                 |                                       |
| <b>CPR (Canadian Controlled Products Regulations):</b> Referenced.                                   |                                       |
| <b>IDL (Canadian Ingredient Disclosure List):</b> Listed.  |                                       |
| <b>DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):</b> Listed on DSL. |                                       |
| <b>WGK Water Quality Index:</b> 1  |                                       |

## SECTION 16 - OTHER INFORMATION

**Legend:** NA = Not Available, NE = Not Established, ND = Not Determined, C = Carcinogen, NTP= National Toxicology Program

|                            |  |  |  |
|----------------------------|--|--|--|
| <b>HMIS HAZARD RATINGS</b> | <b>HEALTH:</b><br><b>FLAMMABILITY:</b><br><b>PHYSICAL HAZARD:</b><br><b>PERSONAL PROTECTIVE EQUIPMENT:</b> | <b>1</b><br><b>0</b><br><b>0</b><br><b>B</b> | 0 = INSIGNIFICANT<br>1 = SLIGHT<br>2 = MODERATE<br>3 = HIGH<br>4 = EXTREME |
|----------------------------|--|--|--|

**REVISION SUMMARY:**  
 Revised to ANSI. protocols 10/10/2008 supersedes 11/7/2007 issue.LB

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.