



## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

|   |  |  |  |
|---|--|--|--|
| <b>PRODUCT NAME:</b> H2ORANGE2 ONE RTU  |  | <b>DATE:</b> July 13, 2009   |  |
| <b>PRODUCT NUMBER:</b> 120  |  |  |  |
| TRADE NAME: H2Orange2 One Sanitizer<br>GENERAL USE: Sanitizer/Cleanser<br>CHEMICAL FAMILY: Sanitizer Fungicide Virucide<br>PRODUCT DESCRIPTION:<br>Clear Liquid with Citrus Odor. |  |    |  |
| <b>MANUFACTURER:</b><br><b>Envirox LLC</b>  |  | DATE PREPARED: July 13, 2009<br>SUPERSEDES: October 17, 2008   |  |
| ADDRESS (NUMBER, STREET, P.O. BOX)<br><b>P.O. Box 2327, 1938 E. Fairchild St.</b>   |  | TELEPHONE NUMBER FOR INFORMATION / Customer Service<br><b>1-217-442-8596</b>   |  |
| (CITY, STATE AND ZIP CODE)<br><b>Danville, IL. 61834-2327</b>   |  | <b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b><br> |  |
| COUNTRY<br><b>USA</b>   |  | <b>1-800-255-3924</b> <b>1-813-248-0585</b><br>North America Toll Free      International  |  |

## SECTION 2 - HAZARDOUS INGREDIENTS

| Hazardous Components     | % (by Weight)  | CAS #            | EINECS #         | Hazard Symbol | RISK PHRASES (Full Text Section 15) |
|--------------------------|----------------|------------------|------------------|---------------|-------------------------------------|
| <b>Hydrogen Peroxide</b> | <b>&lt;1.0</b> | <b>7722-84-1</b> | <b>231-765-0</b> | <b>None</b>   | <b>None</b>                         |

Notes: 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. **Proprietary non-hazardous ingredients not listed.**

## SECTION 3 - HAZARDS IDENTIFICATION

**INHALATION:**  
May irritate respiratory tract if inhaled as mist.

**SKIN:**  
May cause skin irritation or dermatitis. This is mainly seen in sensitive individuals and in cases of prolonged contact.

**EYES:**  
May cause mild to moderate eye irritation from splashing or contact with mists.

**INGESTION:**  
May cause stomach upset, including vomiting and/or nausea. Product is only mildly toxic by ingestion.

**CARCINOGENICITY:**

|                      |                     |                    |
|----------------------|---------------------|--------------------|
| NTP? NO              | IARC MONOGRAPHS? NO | OSHA REGULATED? NO |
| CALIFORNIA, Prop.65? | NO                  |                    |

## SECTION 4 - FIRST AID MEASURES

**INHALATION:**  
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.

**EYES:**  
Hold eye open and rinse slowly and gently with potable water or eye wash solution 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.

**SKIN:**  
Remove contaminated clothing. Rinse skin immediately with plenty of water. Seek medical attention for severe/persistent cases.

**INGESTION:**  
**Call poison control center (Toll-Free at 1-800-222-1222 within the USA) 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

**GENERAL HAZARDS:**  
Not expected to be flammable - slight flash-over may occur, but continued combustion is highly unlikely.

**EXTINGUISHING MEDIA:**  
Choose media for surrounding fire.

**FIRE FIGHTING PROCEDURES:**  
Firefighters should wear self-contained breathing apparatus and turn-out gear when fighting any chemical fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
None applicable.

**HAZARDOUS COMBUSTION PRODUCTS:**  
None known.

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** H2ORANGE2 ONE RTU  
**PRODUCT NUMBER:** 120 **DATE:** July 13, 2009

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Do not flush large quantities of material into sewers or bodies of water. Use absorbent to trap spilled material, then place in waste container. Small spills (less than a gallon) can be flushed into a sanitary sewer with plenty of water.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store indoors; Store below 120°F, avoiding temperature extremes. Do not store with incompatible materials (see Section 10).

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| 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 |
| #REF!                | 1       | 1.4       | 75 IDLH  |            | 1           |           | 1       | 1.4       |

### PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Local Exhaust Ventilation is OK. NIOSH/OSHA approved respirators may be used if respiratory irritation occurs.

PROTECTIVE GLOVES:

Impervious protective gloves are recommended - especially for sustained contact. Neoprene is a good choice for glove material.

EYE PROTECTION:

Safety glasses with side shields are recommended where a splash hazard exists and as a good industrial practice.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not generally required. An impervious apron is suggested for situations where a splash hazard exists.

WORK / HYGIENIC PRACTICES:

Wash hands with soap and water after contact. Use emollient cleanser for mild dryness of skin.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| APPEARANCE AND ODOR<br><b>Clear Liquid with Citrus Odor.</b>         | VAPOR PRESSURE<br><b>NE</b>                                    |
| pH<br><b>3.5-4.5</b>   | SPECIFIC GRAVITY (WATER = 1)<br><b>Slightly greater than 1</b> |
| BOILING POINT / BOILING RANGE<br><b>~212°F</b>                       | SOLUBILITY IN WATER<br><b>Soluble or miscible.</b>             |
| FLASH POINT<br><b>None - product may be considered non-flammable</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>                           |
| AUTOIGNITION TEMPERATURE<br><b>NA</b>                                | EVAPORATION RATE (WATER = 1)<br><b>NA</b>                      |

## SECTION 10 - STABILITY AND REACTIVITY

|                       |   |
|-----------------------|---|
| STABILITY<br>STABLE X | CONDITIONS TO AVOID:<br>Extreme heat or open flame. |
|-----------------------|---|

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, alkalis

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None known

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None related to polymerization.

## SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Components | CAS #<br>EINECS #      | LD50 of Ingredient<br>(Specify Species and Route)              | LC50 of Ingredient<br>(Specify Species) |
|----------------------|------------------------|--|---|
| Hydrogen Peroxide    | 7722-84-1<br>231-765-0 | Oral, rat: LD50 = 376 mg/kg;<br>Oral, mouse: LD50 = 2000 mg/kg | Inhalation, rat: LC50 = 2000 mg/m3      |

## SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this blended product; it is known to be biodegradable, however, based on the ingredients used in its manufacture. Product contains no Priority Pollutants under the Clean Water Act.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:**

Biodegradable product may be flushed to sewage treatment facility (in small quantities - see Section 6) or landfill. Dispose of container according to State, Federal and Local laws.

## SECTION 14 - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** 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> NA                  |
| <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

**TSCA (USA - Toxic Substance Control Act):** All components are listed.  
**SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):**  
 Acute Health: **Yes** Chronic Health: **No**  
 Fire: **No** Sudden Release of Pressure: **No**  
 Reactive: **No**

**313 REPORTABLE INGREDIENTS:** None

**CERCLA (USA - Comprehensive Response Compensation and Liability Act):** No reportable ingredients

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** No reportable ingredients

**CPR (Canadian Controlled Products Regulations):** No WHMIS warnings required.

**IDL (Canadian Ingredient Disclosure List):** Listed.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):** Listed on DSL.

**WGK Water Quality Index:** 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> 1<br><b>FLAMMABILITY:</b> 0<br><b>PHYSICAL HAZARD:</b> 0<br><b>PERSONAL PROTECTIVE EQUIPMENT:</b> B | 0 = INSIGNIFICANT<br>1 = SLIGHT<br>2 = MODERATE<br>3 = HIGH<br>4 = EXTREME |
|----------------------------|--|--|

**REVISION SUMMARY:**  
 Revised to ANSI. protocols 7/13/2009 supersedes 10/17/2008 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.