

## Material Safety Data Sheet Mark & Vandal OMB Concentrate

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Orange Crush OMB	
<b>Product Number</b>	NTN MVOMB	
<b>Manufacturer/ Supplier</b>	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
<b>Phone Number</b>	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
<b>D.O.T. Emergency Phone:</b>	<b>1-800-633-8253</b>	
<b>Date of Preparation</b>	April 21, 2014	<b>Revision Number</b> 1.0

### Section 2. Hazards Identification

<b>Emergency overview</b>	<b>This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</b>
DANGER!	
Keep out of reach of children. Keep container closed during storage.	
<b>Potential Acute Health Effects</b>	This product is an eye irritant.
<b>Routes of Entry</b>	Eye Contact Ingestion. INHALATION Skin contact.
<b>Eyes</b>	Eye irritation. Liquid and mist may cause damage to the eyes causing corneal injury.
<b>Skin</b>	Skin irritation. May cause moderate redness and swelling with prolonged contact.
<b>Inhalation</b>	Vapors may be irritating to mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.
<b>Ingestion</b>	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulty and weakness. Possible kidney damage may result from long quantities of material.
<b>Medical conditions aggravated by exposure:</b>	Over-exposure by inhalation may cause respiratory irritation.
<b>Potential Chronic Health</b>	Over-exposure by inhalation may cause respiratory irritation.
<b>Carcinogenic Effects</b>	Classified A3 (Proven for animal.) by ACGIH {2-Butoxyethanol}..
<b>Target Organs</b>	Kidneys
<b>Environmental Effects</b>	1 ppm / 24hr. /minnow / no effect / fresh water 5 ppm / 48 hr. / mosquito fish / TLM / fresh water

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Orange Terpenes	6864-72-3	Proprietary		
Glycol Ether EB	111-76-2	Proprietary		
Synthetic Isoparaffinic Hydrocarbon	64742-48-9	Proprietary		

### Section 4. First Aid Measures

<b>Eye Contact</b>	Remove contact lenses, flush with large water for 15-20 minutes. Seek medical attention immediately
<b>Skin Contact</b>	Remove contaminated clothing. Wash affected areas with copious amounts of soap water. Seek medical attention if irritation persists.
<b>Inhalation</b>	Seek fresh air immediately. If breathing is difficult seek medical attention.
<b>Ingestion</b>	Drink two glasses of water and induce vomiting. Seek medical attention immediately.
<b>General Advice</b>	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
<b>Notes to Physician</b>	Not available

### Section 5. Fire Fighting Measures

<b>Flammability</b>	Combustible Liquid
<b>Fire Fighting Media and instructions</b>	Non-flammable substance.
<b>Products of Combustion</b>	Carbon Monoxide, and Carbon Dioxide
<b>Special Remarks on Fire Hazards</b>	Not available
<b>Special Remarks on Explosion Hazards</b>	Not available
<b>Sensitivity to Mechanical Impact</b>	Not available
<b>Sensitivity to Static Discharge</b>	Not available
<b>Protection of Fire Fighters</b>	See special remarks on Fire Hazards

### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Splash goggles. Full suit. Boots. Gloves.
<b>Methods for Containment</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental Precautions</b>	Incinerate in a furnace where permitted under appropriate federal, state, and local regulations
<b>Methods for Clean Up</b>	See Methods for Containment

## Section 7. Handling and Storage

<b>Precautions</b>	Usual precautions for combustible liquids. Avoid freezing product. Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
<b>Incompatibility</b>	oxidizing agents
<b>Storage</b>	Keep locked up and out of the reach of children. Keep container tightly closed. Not for use or storage in or around the home. Keep away from ignition source.

Keep out of reach of children.  
Keep container closed during storage.

## Section 8. Exposure Controls/Personal Protection

### Engineering Controls

**Personal Protection** Good general ventilation should be sufficient to control airborne levels. Eye washing station recommended

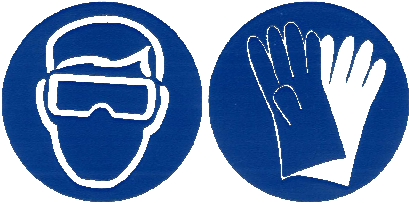
**Eyes** Splash goggles or goggles.

**Body** No special protective clothing is required.

**Respiratory** A respirator is not needed under normal and intended conditions of product use.

**Hands** Rubber or neoprene gloves (impervious)

### Protective Clothing (Pictograms)



**Exposure Limits** **2-Butoxyethanol**  
TWA: 25 (ppm)  
TWA: 50 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Clear, yellow liquid
<b>Molecular Weight</b>	N/A
<b>pH</b>	(NEAT)7.0
<b>Boiling/Condensation Point</b>	318 F to 386 F
<b>Specific Gravity</b>	(H <sub>2</sub> O = 1) 0.88
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature)

<b>Vapor Density</b>	(Air = 1)
<b>Volatility</b>	N/A
<b>VOC</b>	N/A
<b>Evaporation Rate</b>	(H <sub>2</sub> O = 1)
<b>Dispersion Properties</b>	N/A
<b>Solubility</b>	Partially soluble in water
<b>The Product is:</b>	Solvent Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	108 F
<b>Flammable Limits</b>	Not applicable
<b>Fire Hazards in Presence Of Various Substances</b>	Combustible liquid: Avoid heat, sparks, and open flame
<b>Explosion Hazards in Presence of Various Substances</b>	Combustible liquid: Avoid heat, sparks, and open flame
<b>Odor</b>	Citrus
<b>Color</b>	Clear, yellow

#### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substance</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Burning can produce carbon dioxide and/or carbon monoxide

#### Section 11. Toxicological Information

<b>Routes of Entry</b>	Eye Contact, Ingestion, Inhalation, Skin contact
<b>Toxicity to Animals</b>	Acute > 5000mg. / Kg Rat
<b>Acute Effects on Humans</b>	<b>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</b> Acute oral toxicity (LD50): 1746 mg/kg {Rat}. (2-Butoxyethanol) Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) {Mouse} (2-Butoxyethanol)
<b>Eyes</b>	Eye irritation. Liquid and mist may cause damage to the eyes causing corneal injury.
<b>Skin</b>	Skin irritation. May cause moderate redness and swelling with prolonged contact.
<b>Inhalation</b>	Vapors may be irritating to mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.
<b>Ingestion</b>	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulty and weakness. Possible kidney damage may result from long quantities of material.

<b>Chronic Effects on Humans</b>	Over-exposure by inhalation may cause respiratory irritation.
<b>Special Remarks on Toxicity to Animals</b>	No additional remarks
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remarks

### Section 12. Ecological Information

<b>Ecotoxicity</b>	1 ppm / 24hr. /minnow / no effect / fresh water 5 ppm / 48 hr. / mosquito fish / TLM / fresh water
<b>BOD5 and COD</b>	Not available
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available
<b>Special Remarks on the Products of Biodegradation</b>	No additional remarks

### Section 13. Disposal Considerations

<b>Waste Information</b>	<b>Absorb spills with dirt, sand, or other suitable material.</b> Any method in accordance with applicable laws.
<b>Waste Stream</b>	Not available

### Section 14. Transport Information

<b>DOT (U.S.A.) (Pictograms)</b>	Not regulated
<b>TDG Classification</b>	Not controlled under TDG (Canada)
<b>PIN UN, Proper Shipping Name, PG</b>	Not regulated
<b>Maritime Transportation</b>	Not a "marine pollutant"
<b>Special Provisions for Transport</b>	Not applicable

### Section 15. Regulatory Information and Pictograms

<b>Regulatory Lists</b>	No products were found.	
<b>Other Regulations</b>	Not available, or of its ingredients	
<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	HCS CLASS: Irritating substance.
	<b>USA Regulatory</b>	This product does NOT contain components that are known to the state of

**Lists** California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)  
 SARA 302 Extremely Hazardous Substances - Not listed  
 SARA 311 - 1. Immediate (acute) health hazard  
 2. Delayed (chronic) health hazard  
 3. Fire hazard  
 SARA 313 Toxic Chemical List – Not listed

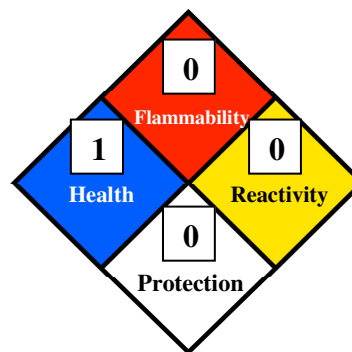
**DSD (EEC)**

**International Regulations Lists** No Products were found.

**Hazardous Material Information System (U.S.A.)**



**National Fire Protection Association (U.S.A.)**



**WHMIS (Classification)** WHMIS CLASS D-2: Material causing other toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

**Expiry Date** 3 (Three Years) from the date of preparation indicated in Section 1.

**Validated by** \_\_\_\_\_ **Verified by** \_\_\_\_\_

**Printed**

**Information Contact**

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Validated on** \_\_\_\_\_ **NuTech Specialties, Inc.**