

## Material Safety Data Sheet Orange Twister 13

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Orange Twister 13	
<b>Product Number</b>	NTAL OT13	
<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>	September 25, 2012	<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>
<b>DANGER!</b> Keep out of reach of children. Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work-station location. S24/25- Avoid contact with skin and eyes.	
<b>Potential Acute Health Effects</b>	May cause eye irritation, de-fatting of the skin Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
<b>Routes of Entry</b>	Ingestion, eye contact.
<b>Eyes</b>	Eye Irritation
<b>Skin</b>	De-fatting of the skin
<b>Inhalation</b>	Causes no adverse effects
<b>Ingestion</b>	May cause gastrointestinal irritation
<b>Medical conditions aggravated by exposure:</b>	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (of example, asthma-like conditions), liver, and kidney.
<b>Potential Chronic Health</b>	None
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Target Organs</b>	Acute lethal exposure to ethylene glycol monobutyl either in animal studies has resulted in congestion of organs including kidney, spleen, and lung. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities.
<b>Environmental Effects</b>	Not available

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
SOLVENT-BUTYL CELLOSOLVE	111-76-2	>5	25	25
SODIUM METASILICATE	6834-92-0	>4	NONE	NONE
SODIUM TRIPOYPHOSPHATE	7758-29-4	>4	NONE	NONE
ALKANOLAMINE	141-43-5	>2		

### Section 4. First Aid Measures

<b>Eye Contact</b>	May cause eye irritation, flush eyes with running water for at least 15 minutes, keeping eyelids open.
<b>Skin Contact</b>	Wash gently and thoroughly the contaminated skin with running water and vinegar.
<b>Inhalation Ingestion</b>	Drink large volumes of water, then a solution of water and vinegar or other mildly acid fruit juice. DO NOT INDUCE VOMITING
<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>	No specific information is available in our database regarding the flammability of this product is presence of various materials.
<b>Fire Fighting Media and instructions</b>	Not available
<b>Products of Combustion</b>	Not available
<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>	Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Methods for Containment</b>	Absorb with an in inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental Precautions</b>	Consult local authorities for approved method of container disposal. Read label instructions carefully before using.

Methods for Clean Up

See Methods for Containment

### Section 7. Handling and Storage

<b>Precautions</b>	Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
<b>Incompatibility</b>	Strong acids
<b>Storage</b>	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of reach of children. For Institutional and Commercial Use.

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

### Section 8. Exposure Controls/Personal Protection

#### Engineering Controls

**Personal Protection** Adequate general ventilation should be sufficient to control airborne levels.

**Eyes** Splash goggles

**Body** Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

**Respiratory** Not required

**Hands** Rubber gloves

**Protective Clothing (Pictograms)** Apron



**Exposure Limits**

**Sodium Hydroxide**

TWA:  $2 (mg / m^3)$  from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Purple liquid
<b>Molecular Weight</b>	N/A
<b>pH</b>	13
<b>Boiling/Condensation Point</b>	200F

<b>Melting/Freezing Point</b>	<32 F
<b>Critical Temperature</b>	N/A
<b>Instability Temperature</b>	>212 F
<b>Specific Gravity</b>	(H2O = 1): 1.077
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature)
<b>Vapor Density</b>	(Air = 1)
<b>Solubility in Water</b>	Complete in water
<b>VOC</b>	N/A
<b>Evaporation Rate</b>	(H2O = 1) 0.85
<b>Dispersion Properties</b>	N/A
<b>Solubility</b>	Complete in water
<b>The Product is:</b>	Alkaline Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	None below 212 F
<b>Flammable Limits</b>	None below 212 F
<b>Fire Hazards in Presence Of Various Substances</b>	N/A
<b>Explosion Hazards in Presence of Various Substances</b>	N/A
<b>Odor</b>	slight orange odor
<b>Color</b>	Orange

#### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substance</b>	Product will be neutralized if contacted by acid products
<b>Hazardous Decomposition Products</b>	Not available

#### Section 11. Toxicological Information

<b>Routes of Entry</b>	Ingestion, and eye contact.
<b>Toxicity to Animals</b>	Per oral (Glycol Ether EB) {Rat} LD-50 (470-3000) MG/K9
<b>Acute Effects on Humans</b>	Acute oral toxicity (LD50): 140 mg/kg {Rat}. (Sodium Hydroxide)
<b>Eyes</b>	Eye Irritation
<b>Skin</b>	De-fatting of the skin.

<b>Inhalation</b>	Causes no adverse effects
<b>Ingestion</b>	May cause gastrointestinal irritation
<b>Chronic Effects on Humans</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark

### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available
<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>	Not available

### Section 13. Disposal Considerations

<b>Waste Information</b>	If spilled, contain spill and dilute with clean water, wash all surfaces with clean water. For disposal, dilute with large volumes of water and flush to sewer.
<b>Waste Stream</b>	Not available

### Section 14. Transport Information

<b>DOT (U.S.A.) (Pictograms)</b>	None
<b>TDG Classification</b>	This product is not regulated by DOT when shipped
<b>PIN UN, Proper Shipping Name, PG</b>	Shipping Name: Domestically by land.
<b>Maritime Transportation</b>	None
<b>Special Provisions for Transport</b>	Not available

### Section 15. Regulatory Information and Pictograms

<b>Regulatory Lists</b>	No products were found.
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
<b>Other Classifications</b>	HCS (U.S.A.)      HCS Class: Corrosive Liquid. HCS Class: Toxic.

**USA Regulatory Lists** This product does NOT contain components that are known to the state of 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  
 SARA 313 Toxic Chemical List – Not listed

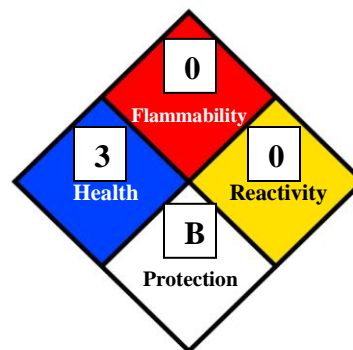
**DSD (EEC)** R22- Harmful if swallowed.  
 R35- Causes severe burns.

**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 E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious 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.**