

## Material Safety Data Sheet Big Red Concentrated

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Big Red Concentrated	
<b>Product Number</b>	NTAL BRC	
<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>	August 14, 2012	<b>Revision Number</b> 1.0

### Section 2. Hazards Identification

**Emergency overview**                      **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**DANGER!**

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.

**Potential Acute Health Effects**                      Eye contact can result in corneal damage or blindness. Corrosive to skin and eyes on contact. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

**Routes of Entry**                      Skin contact. Ingestion. Eye Contact.

**Eyes**                                      Corrosive to the eyes

**Skin**                                        Corrosive to the skin

**Inhalation**                              No adverse effects from inhalation

**Ingestion**                                Gastrointestinal irritation

**Medical conditions aggravated by exposure:**                      Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

**Potential Chronic Health**                      Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

**Carcinogenic Effects**                      Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Target Organs**                              Not applicable

**Environmental Effects**                      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 Cello Solve	111-76-2	5%		
Potassium Hydroxide	1310-58-3	5%		
Dioxide Trioxosilicate	6834-92-0	5%		

### Section 4. First Aid Measures

<b>Eye Contact</b>	Flush eyes with clear water for 15 minutes.
<b>Skin Contact</b>	Flush with solution water and vinegar
<b>Inhalation</b>	Remove to fresh air
<b>Ingestion</b>	Drink large volumes of clear water, then a solution of water and vinegar or other mild 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>	This product is non-flammable
<b>Fire Fighting Media and instructions</b>	None
<b>Products of Combustion</b>	Not available
<b>Special Remarks on Fire Hazards</b>	None
<b>Special Remarks on Explosion Hazards</b>	None
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<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 inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental Precautions</b>	Dilute with large volumes of water and flush to sewer. Consult local authorities for approved method of container disposal. Read label instructions carefully before using.
<b>Methods for Clean Up</b>	Contain spill and dilute with water, wash all surfaces with water.

## Section 7. Handling and Storage

<b>Precautions</b>	Keep out of reach of children. Keep container sealed when not in use. Protect product from freezing. Keep product in original shipping container. Consult local authorities for approved method of container disposal. Read label instructions carefully before using.
<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

<b>Engineering Controls</b>	General ventilation
<b>Personal Protection</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Eyes</b>	Splash goggles or Face Shield.
<b>Body</b>	Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
<b>Respiratory</b>	Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	Neoprene or rubber gloves
<b>Protective Clothing (Pictograms)</b>	



**Exposure Limits**

**Potassium Hydroxide**

Oral (Rat) LD50 273 mg/kg

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Red Liquid
<b>Molecular Weight</b>	N/A
<b>Ph</b>	13
<b>Boiling/Condensation Point</b>	200 F
<b>Melting/Freezing Point</b>	32 F
<b>Critical Temperature</b>	Not applicable

<b>Instability Temperature</b>	Not applicable
<b>Specific Gravity</b>	(H2O = 1): 1.077
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature): N/A
<b>Vapor Density</b>	(Air = 1)
<b>Volatility</b>	N/A
<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>	Caustic Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	None
<b>Flammable Limits</b>	N/A
<b>Fire Hazards in Presence Of Various Substances</b>	None
<b>Explosion Hazards in Presence of Various Substances</b>	None
<b>Odor</b>	Chemical
<b>Color</b>	Red

#### 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>	None

#### Section 11. Toxicological Information

<b>Routes of Entry</b>	Skin Contact. Ingestion. Eye Contact.
<b>Toxicity to Animals</b>	Oral (Rat) LD50 273 mg/kg
<b>Acute Effects on Humans</b>	N/A
<b>Eyes</b>	Corrosive to the eyes
<b>Skin</b>	Corrosive to the skin
<b>Inhalation</b>	No adverse effects from inhalation
<b>Ingestion</b>	Gastrointestinal irritation

<b>Chronic Effects on Humans</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<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>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Not available

**Section 14. Transport Information**

<b>DOT (U.S.A.) (Pictograms)</b>	Not regulated by DOT
<b>TDG Classification</b>	N/A
<b>PIN UN, Proper Shipping Name, PG</b>	Shipping Name: N/A
<b>Maritime Transportation</b>	Not a "marine pollutant"
<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>	<b>HCS (U.S.A.)</b> HCS Class: Corrosive Liquid. HCS Class: Toxic.
<b>USA Regulatory Lists</b>	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  
SARA 313 Toxic Chemical List – Not listed

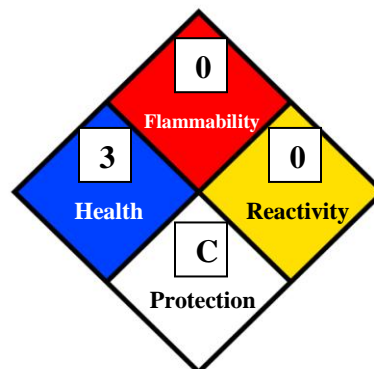
**DSD (EEC)** R22- Harmful if swallowed.  
R35- Causes severe burns

**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.**