

## Material Safety Data Sheet Friction Free All in One II

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Friction Free All in One II	
<b>Product Number</b>	NTAL FFAIO2	
<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>	March 6, 2013	<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.

<b>Potential Acute Health Effects</b>	Irritant
<b>Routes of Entry</b>	Skin contact. Ingestion. Eye Contact.
<b>Eyes</b>	Corrosive to the eyes
<b>Skin</b>	Severe skin irritant, de-fatting of the skin
<b>Inhalation</b>	No adverse effects from inhalation
<b>Ingestion</b>	May cause gastrointestinal irritation
<b>Medical conditions aggravated by exposure:</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Potential Chronic Health</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Target Organs</b>	
<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>
Disodium Trioxosilicate	6834-92-0	<4%		
Ethylene Diminetetraacetic Acid	00064-02-8	<7%		

### Section 4. First Aid Measures

<b>Eye Contact</b>	Flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention if irritation persists
<b>Skin Contact</b>	Flush with water
<b>Inhalation</b>	Get to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
<b>Ingestion</b>	Have conscious person drink large quantities of water then a solution of water and vinegar or other mild acid fruit juice. Do not induce vomiting. Seek immediate medical attention.
<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>	Non Flammable
<b>Fire Fighting Media and instructions</b>	None
<b>Products of Combustion</b>	CO and CO <sub>2</sub>
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	N/A
<b>Sensitivity to Mechanical Impact</b>	N/A
<b>Sensitivity to Static Discharge</b>	N/A
<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
<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>	Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. Consult local authorities for approved method of container disposal. Read label instructions carefully before using.
<b>Incompatibility</b>	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 container sealed when not in use. Protect product from freezing. Keep product in original shipping container.

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** Good general ventilation should be sufficient to control airborne levels.

**Eyes** Splash goggles

**Body** Apron if desired

**Respiratory** None required

**Hands** Rubber gloves

### Protective Clothing (Pictograms)



**Exposure Limits**

None established

## Section 9. Physical and Chemical Properties

**Physical State and Appearance** Blue Liquid

**Molecular Weight** N/A

**Ph** 12

**Boiling/Condensation Point** 200 F

**Melting/Freezing Point** N/A

**Critical Temperature** N/A

**Instability Temperature** N/A

<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>	Alkaline Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	None below 212 F
<b>Flammable Limits</b>	N/A
<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>	Chemical
<b>Color</b>	Blue

#### 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>	Rat LD50 1500 to 3200
<b>Acute Effects on Humans</b>	
<b>Eyes</b>	Corrosive to the eyes
<b>Skin</b>	Severe skin irritant, de-fatting of the skin
<b>Inhalation</b>	No adverse effects from inhalation
<b>Ingestion</b>	May cause 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.
<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>	
<b>TDG Classification</b>	
<b>PIN UN, Proper Shipping Name, PG</b>	Shipping Name:
<b>Maritime Transportation</b>	Not available
<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  
2. Delayed (chronic) health hazard  
SARA 313 Toxic Chemical List – Not listed

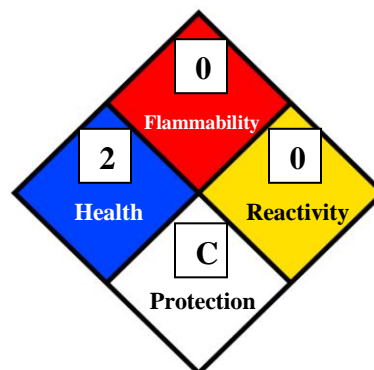
**DSD (EEC)** R22- Harmful if swallowed.

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

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

<b>HEALTH</b>	2
<b>FIRE</b>	0
<b>REACTIVITY</b>	0

**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.**