

## Material Safety Data Sheet Separator Soap With Descaler HD

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Separator Soap With Descaler HD	
<b>Product Number</b>	NTAL SSHD	
<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>	February 21, 2013	<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. For institutional and commercial use.	
<b>Potential Acute Health Effects</b>	Corrosive! Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Corrosive for skin. Corrosive in case of inhalation.
<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Eyes</b>	Corrosive vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.
<b>Skin</b>	Corrosive! Can cause redness, pain, and severe Skin Burns. Concentrated solutions cause deep ulcers and discolor skin.
<b>Inhalation</b>	Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, Throat and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death.
<b>Ingestion</b>	Corrosive! Swallowing hydrochloric acid can cause immediate pain and burns of the mouth throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea, and in severe cases, death.
<b>Medical conditions aggravated by exposure:</b>	Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.
<b>Potential Chronic Health</b>	There is no known effect from chronic exposure to this product.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Target Organs</b>	Skin, eyes, gastrointestinal tract and respiratory system. This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910. 1200

**Environmental Effects**

May cause short-term adverse effects in the aquatic environment. See Section 12 for more information

**Section 3. Composition and Information on Ingredients**

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Sodium Hydroxide	1310-73-2	<10%	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>
Potassium Hydroxide	1310-58-3	1%		2mg/m <sup>3</sup>

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
<b>Skin Contact</b>	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get 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>	Symptoms may not appear immediately.

**Section 5. Fire Fighting Measures**

<b>Flammability</b>	Non flammable
<b>Fire Fighting Media and instructions</b>	All usual types
<b>Products of Combustion</b>	May include, and are not limited to: Oxides of potassium.
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	Not available
<b>Sensitivity to Mechanical Impact</b>	Not available
<b>Sensitivity to Static Discharge</b>	N/A
<b>Protection of Fire Fighters</b>	Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA)

**Section 6. Accidental Release Measures**

<b>Personal Precautions</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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<b>Methods for Containment</b>	Contain spill and dilute with water, wash all surfaces with water
<b>Environmental Precautions</b>	This material must be disposed of in accordance with local, state, provincial, and federal regulations.
<b>Methods for Clean Up</b>	Soak into absorbent material. Spill of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak.

**Section 7. Handling and Storage**

<b>Precautions</b>	Avoid contact with skin and eyes. DO NOT swallow. When using do not eat or drink. Wash hands before eating, drinking, or smoking. After handling always wash hands thoroughly with soap and water.
<b>Incompatibility</b>	Product will be neutralized if contacted by acid products
<b>Storage</b>	Keep out of the reach of children. Not for use or storage in or around the home. Keep container tightly closed, keep contents from freezing. Keep Drum covered when not in use to prevent contamination.

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

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	
<b>Personal Protection</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Eyes</b>	Safety glasses or goggles
<b>Body</b>	Wear suitable protective clothing.
<b>Respiratory</b>	Adequate ventilation
<b>Hands</b>	Gloves

**Protective Clothing (Pictograms)**



**Exposure Limits** See Section 2 For Applicable Exposure Limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Orange Liquid
<b>Molecular Weight</b>	N/A
<b>Ph</b>	13

<b>Boiling/Condensation Point</b>	200
<b>Melting/Freezing Point</b>	N/A
<b>Critical Temperature</b>	N/A
<b>Instability Temperature</b>	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>	Caustic Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	N/A
<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>	Sassafrass
<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>	Thermal decomposition produces traces oxides of phosphorus and carbon

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion
<b>Toxicity to Animals</b>	
<b>Acute Effects on Humans Eyes</b>	Corrosive to the eyes Corrosive vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

<b>Skin</b>	Corrosive! Can cause redness, pain, and severe Skin Burns. Concentrated solutions cause deep ulcers and discolor skin.
<b>Inhalation</b>	Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, Throat and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death.
<b>Ingestion</b>	Corrosive! Swallowing Sodiumhydroxide acid can cause immediate pain and burns of the mouth throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea, and in severe cases, death.
<b>Chronic Effects on Humans</b>	There is no known effect from chronic exposure to this product.
<b>Special Remarks on Toxicity to Animals</b>	Not available
<b>Special Remarks on Chronic Effects on Humans</b>	Not available

### Section 12. Ecological Information

<b>Ecotoxicity</b>	Highly toxic in concentrated form
<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>	Practically non toxic
<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>	Flush to sewer. Detergents are biodegradable

### Section 14. Transport Information

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

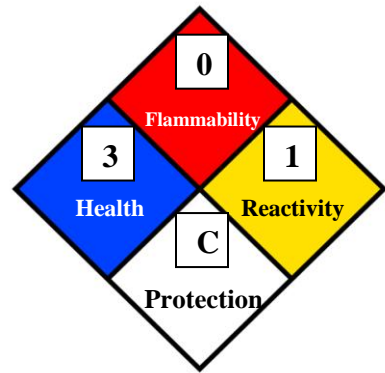
**Section 15. Regulatory Information and Pictograms**

<b>Regulatory Lists</b>	No products were found.	
<b>Other Regulations</b>	Not available, or of its ingredients	
<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	Not controlled under HCS (United States)
	<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 5. Reactive SARA 313 Toxic Chemical List – Not listed
	<b>DSD (EEC)</b>	This product is not classified according to the EU regulations.
	<b>International Regulations Lists</b>	No Products were found.

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



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



**WHMIS (Classification)** Not controlled under WHMIS (Canada).

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:

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