

Product Name: Rough & Tough Cleaner (4016) Product Use: Caustic Cleaner

Tidal Washers supplied by Ecolink PO Box 9 Tucker, GA 30085 www.ecolink.com

Emergency Phone: 800-535-5053

Section 2 - Hazards Identification

GHS Ratings:

GHS Kaungs.				
Acute 1	oxicity - Oral	Acute Tox. 5		
Acute 1	oxicity - Dermal	Acute Tox. 5		
Skin co	prrosion/irritation	1C	Destruction of dermal tissue: Exposure < 4 hours	
			Observation < 14 days, visible necrosis in at least one animal	
Serious	s eye damage/eye	2		
irritatio	n			
Skin se	ensitization	1	Skin sensitizer	
GHS Hazards				
H303		May be harmful if swa	allowed	
H313		May be harmful in contact with skin		
H314		Causes severe skin burns and eye damage		
H317		May cause an allergic skin reaction		
GHS Precaution	<u>15</u>			
P260		Do not breathe dust/f	ume/gas/mist/vapours/spray	
P261		Avoid breathing dust/fume/gas/mist/vapours/spray		
P264		Wash hands thoroughly after handling		
P272		Contaminated work clothing should not be allowed out of the workplace		
P280		Wear protective gloves/protective clothing/eye protection/face protection		
P310			DISON CENTER or doctor/physician if you feel unwell after	
		exposure of this prod		
P312			TER or doctor/physician if you feel unwell	
P321		Specific treatment (see First Aid below or label)		
P363		Wash contaminated of	clothing before reuse	
P301+	P330+P331	IF SWALLOWED: Ca	II a POISON CENTER or doctor/physician. Rinse mouth. Do	
		NOT induce vomiting		
P302+	P352	IF ON SKIN: Wash w	ith soap and water	
P303+I	P361+P353	IF ON SKIN (or hair):	Remove/Take off immediately all contaminated clothing.	
		Rinse skin with water	/shower	
P304+I	P340	IF INHALED: Remove	e victim to fresh air and keep at rest in a position comfortable	
		for breathing		
P305+I			ontinuously with water for several minutes. Remove contact	
			easy to do – continue rinsing	
P333+I			ash occurs: Get medical advice/attention	
P337+I	P313		ts, get medical advice/attention	
P405		Store locked up		
P501			container in conformance with State, Local, and Federal	
		regulations.		



Section 3 - Composition, Information on Ingredients					
Chemical Name	CAS number	Weight Concentration %			
D-Glucopyranose, oligomer	110615-47-9	0.10% - 1.00%			

Section 4 - First Aid Measures

INHALATION: If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

EYE CONTACT: Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY. Washing eyes within several seconds is essential to achieve maximum effectiveness.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with large amounts of water.

GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

INGESTION: If swallowed, do not induce vomiting. For definite or probable ingestion, do not administer oral fluids. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Volume resuscitation (IV fluids) and circulatory support (CPR) may be required. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation. Surgical intervention may be required.

Section 5 - Fire Fighting Measures				
Flash Point: N/A				
LEL:	UEL:			
Fire Hazard: Negligible fire hazard.				
Flash point: Not flammable				
Extinguishing Media: Use extinguishing agents	appropriate for surrounding fire.			
Sensitivity to Mechanical Impact: Not sensitive	e. Sensitivity to Static Discharge: Not sensitive. GHS:Physical			

Hazards: - Corrosive to Metals

Hazardous Decomposition: Toxic Vapors of Sodium Oxide **Fire Fighting:** Move container from fire area if it can be done without risk. Cool containers with water. Avoid contact with skin.Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

Section 6 - Accidental Release Measures

Personal Precautions: Do not get in eyes, on skin or on clothing. Avoid breathing mist, vapor, or spray. Do not ingest. Wear appropriate personal protective equipment recommended in Section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up: In case of spill or leak, stop the leak as soon as possible, if safe to do so. Completely contain spilled materials with dikes, sandbags, etc. Shovel dry material into suitable container. Liquid material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Flush spill area with water, if appropriate. **Environmental Precautions:** Keep out of water supplies and sewers. Do not flush into surface water or sanitary sewer system. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

Section 7 - Handling & Storage

Handling Procedures: Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where this material is used. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to product. When

mixing, slowly add to water to minimize heat generation and spattering.

Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see Section 10 of SDS).

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits	
D-Glucopyranose, oligomer 110615-47-9	Not Established	Not Established	Not Established	

ENGINEERING CONTROLS:

Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Respiratory Protection: An approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets applicable regulatory requirements must be followed whenever workplace conditions

warrant use of a respirator.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear chemical safety goggles with a faceshield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered. Hand Protection: Wear appropriate chemical resistant gloves

Protective Material Types: Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek, Tychem .

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under

certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday. When using do not eat or drink. When using do not smoke.

Section 9 - Physical & Chemical Properties

Appearance Clear Liquid

Color Lt. Red

pH 13+ Specific Gravity 1.10-1.15

Section 10 - Stability & Reactivity

Reactivity/ Stability: Stable at normal temperatures and pressures.

Conditions to Avoid: Mixing with acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

STABLE

Incompatibilities:

Acids, Alkalines, caustics, halogens, oxidizing agents, reactive chemicals

Hazardous Decomposition:

Toxic Vapors of Sodium Oxide

None Known Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

ACUTE TOXICITY:

The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation, corrosion of tissue. Repeated exposure may cause dermatitis. Eye contact can cause severe irritation, and vomiting.

CARCINOGENICITY: This product is not classified as a carcinogen by NTP, IARC or OSHA.

CAS Number

Description

<u>% Weight</u>

Carcinogen Rating

Section 12 - Ecological Information

ECOTOXICITY DATA:

Aquatic Toxicity: This material has exhibited moderate toxicity to aquatic organisms. Data provided are for sodium hydroxide. Fish Toxicity: LC50 Brook trout: 25 ppm/ 24 hr

LC50 King salmon: 48 ppm

Invertebrate Toxicity:

LC50 Daphnia magna: 100 ppm LC50 Shrimp: 33 - 100 ppm/48 hr

LC50 Cockle: 330 - 1000 ppm/48 hr

FATE AND TRANSPORT:

BIODEGRADATION: No information available

PERSISTENCE: Soluble in water, persistence is unlikely based on information available.

BIOCONCENTRATION: This material is not expected to bioconcentrate in oganisms.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms.

Component Ecotoxicity

Section 13 - Disposal Considerations

Waste from material: Reuse or reprocess, if possible. Dispose in accordance with all applicable regulations. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D002.

Section 14 - Transportation Information

<u>Agency</u> DOT	<u>Proper Shipping Name</u> Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)	<u>UN Number</u> UN3266	Packing Group PGII	<u>Hazard Class</u> 8
Section	15 - Regulatory Information			

Country

Regulation

All Components Listed

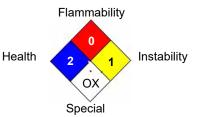
Section 16 - Other Information

Hazardous Material Information System (HMIS)



HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision

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