

Section 1 - Identification

Product Name: Tidal Super Citrus Degreaser (4041)

Product Use: Has a wide variety of uses ranging from an all purpose cleaner to a heavy duty industrial degreaser. It will emulsify heavy grease, soap scum, rubber burns, floor finishes, black heel marks, dirt, printer's ink, and carbon deposits.

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:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: \geq 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity \geq 20.5 mm ² /s at 40° C.

GHS Hazards

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

GHS Precautions

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
P321	Specific treatment (see First Aid below or label)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in conformance with State, Local, and Federal regulations.

Signal Word: Danger



Section 3 - Composition, Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Citrus, extract	94266-47-4	10.00% - 20.00%
Methyl ester, soybean oil	67784-8/0-9	10.00% - 20.00%
2-butoxyethanol	111-76-2	10.00% - 20.00%

Section 4 - First Aid Measures

After inhalation: Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Information for doctor: · Most important symptoms and effects, both acute and delayed Allergic reactions Irritant to skin and mucous membranes Dizziness Breathing difficulty .Gastric or intestinal disorders

Danger:

Danger of impaired breathing. Repeated exposure may cause skin dryness or cracking. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Danger of pulmonary edema. Danger of pneumonia. Indication of any immediate medical attention and special treatment needed: If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Treat skin and mucous membrane with antihistamine and corticoid preparations. Contains d-limonene. May produce an allergic reaction.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL: 1.00

UEL: 11.00

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents: Water stream.

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: Eliminate all ignition sources if safe to do so. Cool endangered receptacles with water fog.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure

adequate ventilation. Keep away from ignition sources. Protect from heat.

Environmental precautions: Do not allow to enter sewers/ surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers).

Methods and material for containment and cleaning up: Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Pick up mechanically. Send for recovery or disposal in suitable receptacles.

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7 - Handling & Storage

Precautions for safe handling: Prevent formation of aerosols. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Keep away from heat and direct sunlight. Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Flammable gas-air mixtures may be formed in empty receptacles. The product forms flammable fumes when heated.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

Further information about storage conditions: Keep receptacle tightly sealed. Protect from heat and direct sunlight.

Specific end use(s): No further relevant information available.

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Citrus, extract 94266-47-4	Not Established	Not Established	Not Established
Methyl ester, soybean oil 67784-8/0-9	Not Established	Not Established	Not Established
2-butoxyethanol 111-76-2	OSHA Z-1 TWA:240 mg/m3 OSHA Z-1 TWA Absorbed via Skin	TWA 20ppm PE: 50 ppm	Not Established

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Breathing equipment: Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed. NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Limitation and supervision of exposure into the environment

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: Nitrile rubber, NBR Neoprene gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Protective work clothing

Section 9 - Physical & Chemical Properties

Appearance Clear Liquid Color Orange	Odor Citrus Specific Gravity 0.815
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Section 10 - Stability & Reactivity

UNSTABLE

Strong Oxidizing Agents

Incompatible Materials to Avoid: Strong Oxidizing agents and strong acids, including acidic clays, peroxides, halogens, vinyl chloride, iodine pentafluoride.

Strong Oxidizing agents, Strong Acids

None Known

Hazardous Decomposition Products: Oxides of d-limonene, which can result from improper storage and handling, are known to cause skin sensitization. No decomposition if stored properly.

Possibility of Hazardous Reactions: BHT, an antioxidant, can be added to prevent oxidation. Avoid long term exposure to air.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

Hazardous polymerization will occur.

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 4,433mg/kg

Component Toxicity

111-76-2

2-butoxyethanol

Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rat)

CAS Number

Description

% Weight

Carcinogen Rating

Section 12 - Ecological Information

Component Ecotoxicity

Section 13 - Disposal Considerations

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Can be reused after reprocessing. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transportation Information

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not Regulated			

Section 15 - Regulatory Information

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>

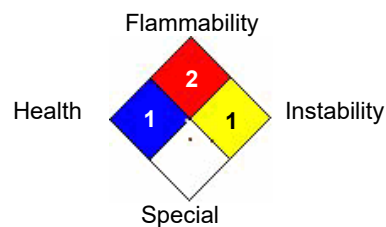
Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	1
PERSONAL PROTECTION	D

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

Date Prepared: 12/15/2020