



Tornado - Green Apple Biozyme All Purpose Cleaner

SECTION 1 - IDENTIFICATION

Product Name: Tornado – Green Apple Biozyme All Purpose Cleaner
Product Use: Bacterial Product/Waste Degradar & Deodorizer/FOR INDUSTRIAL USE ONLY
Revision Date: 01/26/2022
Product code: 761
CAS#: N/A, Mixture

Distributed by:
Shur-Az
871 High Street
Central Falls, RI 02863
401-723-0116

POISON CONTROL NUMBER 1-800-222-1222

SECTION 2 - HAZARDOUS IDENTIFICATION

GHS LABEL SIGNAL WORD: WARNING

GHS SYMBOLS:



Classification Irritant to eyes and skin

Skin corrosion / Irritation	Category 4
Eye Damage / Eye irritation	Category 2 A
Inhalation	Category 2

Emergency Overview

May cause irritation of skin and risk of serious damage to eyes.

Potential Health Effects

Primary routes of exposure: Skin contact, eye contact, inhalation and ingestion.

Irritant

Skin: irritating to skin. Prolonged skin contact, may cause dry skin or/and irritation. Slightly hazardous in case of skin contact.

Eyes: Severe irritant. May cause damage to eyes.

Inhalation: Not likely under normal conditions of use

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects; Chronic effects by over exposure to this product have not been established.

Carcinogenicity: NTP; IARC Monographs; The ingredients are not considered a carcinogenic.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Bacterial culture nonpathogenic surfactant blend non-hazardous

Hazardous Ingredients

Components not listed are either non-hazardous or in concentration of less than 1%.

Other Ingredients	CAS Number	Ingredient % Range
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Water	7732-18-5	>50
Alcohol C8-22 Ethoxylated	69013-19-0	1-5
Concentrated Bacterial Cultures	N/A	N/A

SECTION 4 - FIRST-AID MEASURES

Eyes:	Immediately flush eye(s) with plenty of water for at least 15minutes, lifting eye lids occasionally to facilitate irrigation and contact physician. Remove contacts if wearing.
Skin:	In case of contact, flush skin with plenty of water.
Ingestion:	If swallowed, rinse out mouth. DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	If inhaled, remove victim to fresh air immediately.

SECTION 5 - FIRE-FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point and Method:	none
Flammability Limits (vol/vol%):	LOWER: No data available UPPER: No data available
Extinguishing Media (suitable):	Carbon dioxide (CO2), Dry chemical, Foam, water spray
Protective Equipment:	As in any fire wear self-contained breathing apparatus pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.
Products of Combustion:	These products are carbon oxides (CO, CO2) nitrogen oxides (NO, NO2)
Flammable Properties:	NOT FLAMMABLE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of spill or leak: Prevent further leakage or spillage. Warn Personnel. Cleaning products frequently present a slip hazard. Small quantities may be flushed down drain. Dispose of in accordance of Local, State and Federal Requirements.

SECTION 7 - HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.
Storage:	Keep in a dry, cool place. This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage. Store in upright position only. Keep container closed when not in use.
Storage Stability:	Stable under normal conditions.
Storage Incompatibility - General:	Store separate from: Strong bases, Strong oxidizing agents, Strong acids
Temperature tolerance – Do not store below:	- 34 °F (1 °C)
Temperature tolerance – Do not store above:	100 °F (38 °C)

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Respiratory Protection:	Avoid breathing vapor or mist.
Eye/Face Protection:	Splash-proof chemical goggles or face shield.
Skin Protection:	Avoid skin contact by wearing rubber gloves and following good industrial hygiene practice.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color:	Green	Vapor Density:	No data available
Physical State:	Liquid	Vapor Pressure:	Similar to water
Odor:	Green Apple Scent	Boiling Point:	212 °F (100 °C) [data for water (7732-18-5)]
Oxidizing Properties:	None	Freezing point:	32 °F (0 °C) [data for water (7732-18-5)]
pH:	Neutral 6-9	Evaporation rate:	Similar to water
Density:	0.6 to 0.8	Solubility in water:	Soluble disperses in water

Specific Gravity: Approx. 1.0
Viscosity: Similar to water
VOC: No Data Available

SECTION 10 – STABILITY AND REACTIVITY

Stability: This material is chemically stable under normal and anticipated storage, handling and processing conditions.
Stability-Conditions to avoid: See HANDLING AND STORAGE section of this SDS for specified conditions.
See Hazardous Decomposition Products below.
Materials to Avoid: Strong acids, Strong bases, Strong oxidizing agents may inactivate the bacterial cultures
Hazardous Polymerization: Hazardous polymerization does not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Data for this material and/or its components are summarized below.

Primary routes of exposure: Skin contact and eye contact.

Skin: Irritating to skin. Prolonged skin contact, may cause dry skin or irritation and damage. Slightly hazardous in case of skin contact.

Eyes: Severe irritant. May cause damage to eyes

Inhalation: Not likely under normal conditions of use.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Ingredients	CAS Number	Ingredient % Range	
None			
Other Ingredients			
Water	7732-18-5	>50	
Alcohols, C8-22 ethoxylated	69013-19-0	1-5	Ingestion LD50 >2000 mg/kg Rat Dermal LD50 3,300 mg/kg Rat

Other information

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

The surfactants in this product are biodegradable.

This Product does not present an acute toxicity hazard based on known or supplied information.

SECTION 12 - ECOLOGICAL INFORMATION

THE ENVIRONMENTAL IMPACT OF THIS PRODUCT HAS NOT BEEN FULLY INVESTIGATED.

Ecotoxicity:

Alcohols, C8-22 Ethoxylated	69013-19-0	1-5	LC 50 (96 h):8.5 mg/l Fathead minnow EC 50 (48 h): 5.3 mg/l Daphnia Aquatic toxicity: Expected to be toxic; LC 50 < 100 mg/l
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Environmental effects:

Minimal impact under normal conditions of use and storage. The bacteria cultures are naturally occurring soil type organisms.

Persistence and degradability: The surfactants in this product are readily biodegradable.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal: Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

US Department of Transportation (DOT): not regulated, Cleaning Compound NOI Non-Hazardous

SECTION 15 - REGULATORY INFORMATION

US. Toxic Substances Control Act TSCA The components of this product are all on the TSCA Inventory.

U.S. Federal Regulations SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

OSHA Regulated Carcinogens (NTP, IARC, OSHA listed):

NTP: No component in this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 16 - OTHER INFORMATION

Abbreviations and Definitions of terms used:

CAS: Chemical Abstracts Service (Registry Number)
LC50: The concentration of a material (inhaled) that will be lethal to 50% of the test animals.
LD50: The dose (swallowed all at once) which is lethal to 50% of a group of test animals.
N/A: Not Applicable
N/K: Not Known
NIOSH: National Institute for Occupational Safety and Health
PEL: Permissible Exposure Limit
STEL: Short term exposure limit
TLV: Threshold Limit Value
TWA: Time Weighted Average

HEALTH EFFECTS FROM EXPOSURE

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; protective equipment used and method of application.

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The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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