


SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	SHA-ZYME Grease Attacking / Anti-Slip Deodorizing Bio-Cleaner
Other means of identification	1830
Recommended use	Enzyme cleaner.
Recommended restrictions	For commercial and industrial use only.
Manufacturer / Importer / Supplier / Distributor Information	
Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

		Category	Target Organ
Physical Hazards	Not Classified		
Health Hazards	Serious eye damage/eye irritation	2	
OSHA defined hazards	Not Classified.		
Label Elements			
Hazard Symbol			
Signal Word	Warning		
Hazard statement	Causes serious eye irritation.		
Precautionary statement			
Prevention	Wash thoroughly after handling.		
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	Alcohols, C12-13 Ethoxylated	Mixture	1 - 5
Composition Comments	* mixture of ethoxylates, each is below threshold of reportable limit.		

Section 4 - First-aid Measures

Inhalation	Move to fresh air. Get medical attention if irritation persists.
Skin contact	Wash skin with soap and water. Get medical attention if irritation persists.
Eye contact	Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation persists.
Ingestion	Rinse mouth thoroughly with water. Seek medical advice.
Most Important symptoms /effects, acute and delayed	Causes eye irritation.
Indication of immediate medical attention and special treatment	Treat symptomatically.

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General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media This material will not burn. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media Not available.
Specific hazards arising from the chemical None known.
Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
General fire hazards This product is not flammable or combustible.
Specific Methods

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures. Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling Avoid contact with eyes. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).
Biological limit values No biological exposure limits noted for the ingredient(s).
Exposure guidelines Use personal protective equipment as required. Keep working clothes separately.
Appropriate engineering controls Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Other Wear appropriate chemical resistant clothing.
Respiratory protection In case of inadequate ventilation, use respiratory protection.
Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance Slightly hazy liquid.
Physical state Liquid.
Form Liquid.
Color Green.
Odor Herbal.
Odor threshold Not available.
pH (Concentrate) 10
Melting point/freezing point Not available.
Initial boiling point and boiling range 212 °F (100 °C)

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Flash point	> 212.0 °F (> 100.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Similar to water.
Relative density	1.01 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	100 % Soluble.
Partition Coefficient n-octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	No adverse effects due to ingestion are expected.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Causes eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Information on toxicological effects.

Acute toxicity	Not expected to be hazardous.
Skin corrosion/irritation	Prolonged or repeated contact may dry skin and cause irritation.
Serious eye damage/ eye irritation	Causes eye irritation.
Respiratory sensitization	Not classified.
Skin sensitization	Not available.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Chronic effects	
Further information	

Section 12 - Ecological Information

Ecotoxicity
The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Components	Species	Test Results
Alcohols, C12-13 Ethoxylated, 66455-14-9		

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Aquatic		
EcoName	EcoCode	EcoSpecies
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Flathead minnow (Pimephales promelas)

EcoTestResults
0.39 -0.56 mg/l, 48 hours
0.72 -2.7 mg/l, 96 hours

Persistence and degradability	The product is expected to be biodegradable.
Bioaccumulative potential	Not known.
Mobility in soil	Not available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	None known.

Section 13 - Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not established.
General Information	

Section 15 - Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)		Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)		Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard Categories	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not listed.
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List		Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)		Not regulated.
Food and Drug Administration (FDA)		Not regulated.
US state regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.	
US.Massachusetts RTK - Substance List		Not regulated.
US.New Jersey Worker and Community Right-to-Know Act		Not listed.
US.Pennsylvania RTK - Hazardous Substances		Not listed.
US.Rhode Island RTK		Not regulated.
US - California Proposition 65 - Carcinogens Reproductive Toxicity (CRT): Listed substance		Not listed.
International Inventories		
Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

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Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Issue date 5/29/2014

Revision date

Version # 01

Further information

List of abbreviations

References HSDB® - Hazardous Substances Data Bank

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