



SHA-ZYME™

**Grease Attacking / Anti-Slip
Deodorizing Bio-Cleaner**

DESCRIPTION

SHA-ZYME™ is no-rinse daily cleaner and degreaser for use on porous hard surfaces such as concrete, quarry tile, ceramic tile, brick, any grouted floor surface and vinyl tile. Especially in kitchens and food preparation areas, SHA-ZYME with deep cleaning action removes grease and grime below the surface to make quarry tile floors (and grout) more slip resistant. It removes breeding sites for unwanted pests (such as fruit flies) by dissolving organic waste on floors that attracts insects, creating a more sanitary condition in these areas. Specialized SMB (Synergized Multi-Blend) biologically engineered bacteria / enzyme combination continues working to consume grease, grime, urine deposits, organically deodorize and brighten floor surfaces.

SHA-ZYME™ is recommended for use in food service areas, food preparation areas, restrooms and showers in schools, hotels, hospitals, nursing homes,

PRODUCT BENEFITS

- Unique non-acid formula eliminates grease, grime, urine deposits, light mineral deposits.
- Improves slip resistance by removing deep down, trapped grease and grime.
- Will not build-up, yellow or become sticky
- No rinsing required
- Deodorizes as it cleans. Pleasant fresh fragrance.
- Environmentally responsible non-flammable, biodegradable formulation contains no NPE's, no phosphates, no acids, no caustics and no solvents.
- Synergized multi-blend (SMB) high active bacteria count produces grease eliminating enzymes, consuming grease and organic materials until they are gone.
- Will not damage floor finish when used at 1:64 dilution.

DIRECTIONS FOR USE

Dilute SHA-ZYME™ using the chart below as a guideline in warm water. SHA-ZYME™ can be used by hand mopping or through an automatic scrubber.

SOIL CONDITIONS:	DILUTION
Light Duty Cleaning and Maintaining.....	2 oz./Gal. (1:64)
Medium Duty Cleaning	4 oz./Gal. (1:32)
Heavy Grease/Heavy Floor Maintenance.....	6 oz./Gal. (1:20)

SPECIFICATIONS

Color	Green Liquid
Odor.....	Pleasant fresh
pH (conc).....	9.0 ± 0.5
pH (1:64 use dilution)	7.5 ± 0.5
Viscosity (cps)	< 10
Density (lbs/gal).....	8.4 ± 0.1
Solubility	Complete

DIRECTIONS:

SHAKE BEFORE USING

- 1) Dilute according to soil conditions using warm water into mop bucket or automatic scrubber.
- 3) Apply solution onto floor using mop or apply through automatic scrubber.
- 3) Allow solution to penetrate grease and soils.
- 4) If needed, brush floor with a stiff bristled brush.
- 5) Mop up solution or squeegee to the drain. Do not rinse. Allow floor to air dry.

Organic Odor Elimination	Excellent
Grease Removal.....	Excellent
Emulsification	Excellent
Bacteria System	SMB (Synergized Multi-Blend)
Concentration of Bacteria.....	Over 200 billion/gal.
Surface Compatibility.....	Safe on all water washable surfaces
Shelf Life	1 year minimum in original unopened container

SAFETY INFORMATION

WARNING: CAUSES SERIOUS EYE IRRITATION. KEEP OUT OF REACH OF CHILDREN.

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.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

KEEP FROM FREEZING • DO NOT STORE IN SUNLIGHT FOR COMMERCIAL AND INDUSTRIAL USE ONLY



The EARTH SENSE® Seal of Assurance is self-certified by NCL, and identifies our products that are formulated to promote human health and worker safety with a preferred environmental profile.



**Floor Coating and Finishing Material
As to Slip Resistance Only
18EL**



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ENVIRONMENTAL PROFILE		
Chemical Ingredients:	Environmental Impact:	Human Toxicity*:
Phosphates:.....None	Harmful to water systems:.....No	Skin Corrosive:.....No
Ammonia:.....None	Biodegradable:.....Readily	Eye Corrosive:.....No
Butyl:.....None	VOC Compliant:.....Yes	Skin Sensitizer:.....No
Alcohols:.....None	Recyclable Container:.....Yes	Eye Sensitizer:.....No
APE/NPE:.....None	Bio-Renewable Resources:..Yes	Skin Irritant:.....No
Acids:.....None	Reactive:.....No	Eye Irritant:.....No
Caustics:.....None	Flammable:.....No	Low Toxicity.....Yes
Solvents:.....None	Combustible:.....No	Non-Toxic (LD-50):.....No

* Human toxicity profile is based on ready-to-use product.

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@ncnline.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.

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

Section 5 - Fire-fighting measures

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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.

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	If use of product risks exposure to contact, wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear adequate respiratory equipment.
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	9.0
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
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.

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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.

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.
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Component(s)

Alcohols, C12-13 Ethoxylated, 66455-14-9

Aquatic

Acute	Crustacea	EC50	Water flea (Daphnia magna)	0.39 -0.56 mg/l, 48 hours
	Fish	LC50	Flathead minnow (Pimephales promelas)	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.
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SAFETY DATA SHEET

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	This substance/mixture is not intended to be transported in bulk.

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		
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		This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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
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 Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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
Version #	01
References	HSDB® - Hazardous Substances Data Bank HPVIS - High Production Volume Information System

SAFETY DATA SHEET

Disclaimer

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

DESCRIPTION:
A no-rinse daily cleaner and degreaser for use on porous hard surfaces such as concrete, quarry tile, ceramic tile, brick, any grouted floor surface and vinyl tile. Especially in kitchens and food preparation areas, SHA-ZYME™ with deep cleaning action removes grease and grime below the surface to make quarry tile floors (and grout) more slip resistant. Dissolves organic waste on floors leaving a more sanitary condition. Specialized SMB (Synergized Multi-Blend) biologically engineered bacteria / enzyme combination continues working to consume grease, grime, urine deposits, organically deodorize and brighten floor surfaces. Will not damage floor finish when used at 1:64 dilution.

DIRECTIONS FOR USE:
SHAKE BEFORE USE
Dilute SHA-ZYME™ using the chart below as a guideline in warm water. SHA-ZYME™ can be used by hand mopping or through an automatic scrubber. Ideal for urine odor removal.

SOIL CONDITIONS:	DILUTION:
Light Duty Cleaning and Maintenance	2 oz./Gal. (1:64)
Medium Duty Cleaning.....	4 oz./Gal. (1:32)
Heavy Grease/Heavy Floor Maintenance.....	6 oz./Gal. (1:20)
Urine Odor Removal	6 oz./Gal. (1:20)

1. Dilute according to soil conditions using warm water into mop bucket or automatic scrubber.
2. Apply solution onto floor using mop or apply through automatic scrubber.
3. Allow solution to penetrate grease and soils.
4. If needed, brush floor with a stiff bristle brush.
5. Mop up solution or squeegee to the drain. Do not rinse. Allow floor to air dry.

KEEP FROM FREEZING
DO NOT STORE IN SUNLIGHT

CONTAINS: Alcohols, C12-13 Ethoxylated CAS# Mixture



CLASSIFIED
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Floor Coating and Finishing Material
As To Slip Resistance Only
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★ ★ MADE IN USA ★ ★

LG-0001-1830-04

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QUESTIONS?
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To learn more about this product, scan this QR code to visit our website.



INSTRUCCIONES PARA USO:
AGITAR ANTES DE USAR
Diluido SHA-ZYME™ usando la carta abajo como pauta en agua caliente. El SHA-ZYME™ puede ser a mano el aljofifar usado o a través de un depurador automático. Ideal para la eliminación de olores de orina.

CONDICIONES DEL SUELO:	DILUSIÓN:
Limpieza y mantenimiento de poca potencia.....	2 onzas/Gal. (1:64)
Limpieza media del deber	4 onzas/Gal. (1:32)
Grasa pesada/mantenimiento pesado del piso	6 onzas/Gal. (1:20)
Eliminación del olor de la orina.....	6 onzas/Gal. (1:20)

1. Diluir según condiciones del suelo usando el agua caliente en el cubo del mop o el depurador automático.
2. Aplicar la solución sobre piso usando el mop o aplicarte a través del depurador automático.
3. Permitir que la solución penetre la grasa y suelos.
4. Si está necesitado, cepillar el piso con un cepillo erizado tieso.
5. Absorber la solución o el enjugador al dren. No aclarar. Permitir que el piso seque al aire.

EVITE QUE SE CONGELE
NO GUARDE EN LUZ DEL SOL

Sha-Zyme™

**GREASE-ATTACKING / ANTI-SLIP
DEODORIZING BIO-CLEANER**

**• Bio-enzymatic action penetrates
deep into pores of quarry tile
and grouting, removing grease
and organic soils like MAGIC!**



WARNING: CAUSES SERIOUS EYE IRRITATION. **ATENCIÓN: Provoca irritación ocular grave.**
See side panel for additional precautionary statements Ver panel lateral para las medidas preventivas adicionales.



World Class Cleaning Solutions


Net Contents: 1 Gallon (3.79 Liters)

Product No.: 1830

Sha-Zyme™

GREASE ATTACKING / ANTI-SLIP DEODORIZING BIO-CLEANER

SHA-ZYME is a triple power grease-attacking/anti-slip/deodorizing bio-cleaner. SHA-ZYME rapidly attacks grease and penetrates deep into the pores of quarry tile or grout surfaces, removing grease like MAGIC! Powerful, fast acting bio-enzymatic action consumes grease and organic materials until they are gone.

**WARNING: CAUSES SERIOUS EYE IRRITATION. SUBSISTENCIA FUERA DEL ALCANCE DE NIÑOS.**
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. This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Additional safety measures:
Read the entire label and SDS before using this product, and for additional first aid measures. SDS for this product is available on the web at www.nclonline.com
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.

ATENCIÓN: PROVOCA IRRITACIÓN OCULAR GRAVE.
SUBSISTENCIA FUERA DEL ALCANCE DE NIÑOS.
Palabra de advertencia
Prevención: Lávese cuidadosamente después de la manipulación.
Respuesta: En caso de contacto con los ojos: Enjuague cuidadosamente con agua durante varios minutos. Qútese los lentes de contacto, si los usa y si puede hacerse con facilidad. Continúe enjuagando. Si persiste la irritación de los ojos: Busque consulta médica/atención médica.
Almacenamiento: Consérvese alejado de materiales incompatibles.
Eliminación: Eliminación de contenidos / contenedor en consonancia con los reglamentos locales / regionales / nacionales / internacionales pertinentes. Este producto es calificado como “químicamente peligroso” según el Estándar de Comunicación de Riesgos de la OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Medidas additional de primeros auxilios:
Lea toda la etiqueta y SDS antes de usar este producto, así como medidas adicionales de primeros auxilios. SDS para el artículo está disponible en la web en www.nclonline.com
Inhalación: Traslade al aire libre. Buscar atención médica si la irritación persiste.
Contacto cutáneo: Lavar la piel con jabón y agua. Buscar atención médica si la irritación persiste.
Contacto ocular: Enjuagar los ojos cuidadosamente con abundante agua durante al menos 15 minutos. Buscar atención médica si la irritación se persiste.
Ingestión: Enjuáguese la boca cuidadosamente con agua. Busque atención médica.



World Class Cleaning Solutions®

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