

NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

CYCLONE Intensive Ceramic Tile / Grout Cleaner Product Identifier

Other means of identification 2516

Recommended use Alkaline 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	1	
	Skin corrosion/irritation	1	
	Specific target organ toxicity, single exposure	3	respiratory tract irritation

OSHA defined hazards Not Classified.

Label Elements

Hazard Symbol





Signal Word Danger

Hazard statement Causes severe skin burns and eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands

thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center/doctor.

Storage Store locked up.

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#	%
	2-Butoxyethanol	111-76-2	5 - 10
	Nonylphenol, ethoxylated	9016-45-9	1 - 5
	Sodium dimethylbenzenesulfonate	1300-72-7	1 - 5
	Sodium Hydroxide	1310-73-2	1 - 5
Composition Comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		

Section 4 - First-aid Measures

If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, Inhalation

apply artificial respiration. CONSULT A PHYSICIAN.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention if irritation persists. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and Eye contact

remove contact lenses. Continue to rinse for at least 10 minutes.

Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give Ingestion

anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

Call a physician or poison control center immediately.

Most Important symptoms /effects, acute and delayed Causes skin and eve burns.

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

Suitable extinguishing media

Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

Unsuitable extinguishing

Not available.

media 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

procedures.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency

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

Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Do not taste or swallow. Use with adequate ventilation. 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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type Value Form

2-Butoxyethanol (CAS 111-76-2) PEL 240 mg/m³, 50 ppm

PEL Sodium Hydroxide (CAS 1310-73-2) 2 mg/m³

US. ACGIH Threshold Limit Values

Value Form Component Type

Sodium Hydroxide (CAS 1310-73-2) Ceiling 2 mg/m³ 2-Butoxyethanol (CAS 111-76-2) TWA 20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Form Type

2-Butoxyethanol (CAS 111-76-2) TWA 24 mg/m³, 5 ppm Sodium Hydroxide (CAS 1310-73-2) Ceiling 2 mg/m³

Biological limit values

US. ACGIH. BEIs. Biological Exposure Indices

Sampling Time Components Value Determinate Specimen 2-Butoxyethanol (CAS 111-76-2) 200 mg/g Butoxyacetic acid (BAA), Creatinine in urine

with hydrolysis

* - For sampling details, please see the source document.

Exposure guidelines Use personal protective equipment as required. Keep working clothes separately.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

Components

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

US.Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US.NIOSH: Pocket Guide to Chemical Hazards

Component Exposure

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

US.OSHA Table Z-1-A (29 CFR 1910.100)

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

US. Tennesee. OELs Occupational Exposure Limkits, Table Z1A

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

Appropriate engineering

Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water controls

supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved chemical safety goggles.

Skin protection

Hand protection Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a

supplied respirator may be required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking,

considerations and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance Clear. Physical state Liquid. Form Liquid. Color Green. Odor Citrus **Odor threshold** Not available.

pH (Concentrate) 13.5

Melting point/freezing point Not available. Initial boinging point and 212 °F (100 °C)

boiling range

> 212.0 °F (> 100.0 °C) Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. 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 1.05 ± 0.01 Relative density temperature 75 °F (23.89 °C) **Solubilities** 100 % Soluble. Partition Coefficient Not available n-octanol/water

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

Possiblity of hazardous reactions Hazardous polymerization does not occur. **Conditions to Avoid** Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Carbon monoxide. Carbon dioxide.

Products

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion May cause burns of the gastrointestinal tract if swallowed.

Inhalation Irritating to respiratory system.

Skin contact Causes skin burns.

Causes serious eye damage. Eve contact

Symptoms related to the physical, chemical and toxicological characteristics Causes skin and eye burns. Causes respiratory tract irritation. Symptoms may be delayed.

Information on toxicological effects.

Acute toxicity May cause burns.

> Components Level Type Code **Species** Results Nonylphenol, ethoxylated (CAS 9016-45-9) Acute Oral LD50 Mouse 4290 mg/kg, bv Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit 500 mg/kg 2-Butoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit 400 mg/kg Inhalation LC50 Rat 450 mg/l, 4 hrs Acute LD50 560 mg/kg Acute Oral Rat

Skin corrosion/irritation Causes skin burns.

Serious eye damage/ eye

irritation

Causes serious eye damage.

Not classified. Respiratory sensitization Skin sensitization Not classified. Germ cell mutagenicity Not classified.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Component Result Comment

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to

humans.

Reproductive toxicity Not classified.

Specific target organ toxicity -Irritating to respiratory system.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not classified.

Chronic effects 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Further information

Section 12 - Ecological Information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

Test Results Components **Species**

Nonylphenol, ethoxylated, 9016-45-9

Aquatic

Fish

EcoName EcoCode **EcoSpecies EcoTestResults** 65 mg/l, 48 hours Crustacea EC50 Daphnia magna

EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours

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Bioaccumulative potential Not known.

Partition coeficient n-octanol / water log (Kow)

Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83

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

UN number UN1824

UN proper shipping name Sodium hydroxide solution

Transport hazard class(es) 8

Subsidary class(es)

Packing group

Special precautions for

users

Read safety instructions, SDS and emergency procedures before handling.

Labels required 8

Special provisions B2, IB2, N34, T7, TP2

Packaging exemption 154
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1824

UN proper shipping name Sodium hydroxide solution

Transport hazard class(es) 8
Subsidary class(es)

Packaging group II
Environmental hazards No.

Labels required

ERG Code 81

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

No.

Transport hazard class(es) 8

Subsidary class(es)
Packaging goup ||
Environmental hazards

Marine pollutant

Labels required

EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transportation in bulk Not established.

according to Annex II of MARPOL 73/78 and IBC Code

General Information

Section 15 - Regulatory Information

US federal regulationsThis 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

Components Result
Sodium Hydroxide (CAS 1310-73-2) LISTED
2-Butoxyethanol (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard No

Delayed Hazard No Fire Hazard No Pressure Hazard No Reactivity Hazard No

SARA 302 Extremely hazardous substance Not listed.
SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting) Not regulated.

 Chemical name
 CAS #
 % by wt.

 2-Butoxyethanol
 111-76-2
 5 - 10

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 Components

Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)

US.New Jersey Worker and Community Right-to-Know Act Components

Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)

US.Pennsylvania RTK - Hazardous Substances Components

Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)

US.Rhode Island RTK Components

Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)

US - California Propsition 65 - Carcinogens Reproductive

Toxicity (CRT): Listed substance Not listed.

Inventory Name

International Inventories

Country(s) or region	inventory Name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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 Notifed Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States	Toxic Substances Control Act (TSCA) Inventory	No
Puerto Rico		

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

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

Issue date 5/22/2014

Revision date

Version # 01
Further information

List of abbreviations

References

On Inventory (yes/no)*

^{*}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).

Disclaimer

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