

# NATIONAL CHEMICAL LABORATORIES, INC.

## SAFETY DATA SHEET

#### Section 1 - Identification

Product Identifier CYCLONE RTU (1-5) Intensive Tile / Grout Cleaner

Other means of identification 2516 (1-5)
Recommended use Alkaline cleaner.

**Recommended restrictions** For commercial and industrial use only. User prepared Ready-To-Use solution. 1:5 in water.

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

ClassificationCategoryPhysical HazardsNot ClassifiedHealth HazardsSerious eye damage/eye irritation1Skin corrosion/irritation1Specific target organ toxicity, single exposure3

Specific target organ toxicity, single exposure 3 TARGET ORGAN: respiratory tract

irritation

OSHA defined hazards

**Label Elements** 

**Hazard Symbol** 



Not Classified.

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.

None known

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

#### Section 3 - Composition/Information on ingredients

Mixture

CAS# **Hazardous Components** Ingredient Name % 111-76-2 0.5 - 22-Butoxyethanol 4-Nonylphenol, branched, ethoxylated 127087-87-0 0.1 - 1 Sodium dimethylbenzenesulfonate 1300-72-7 0.1 - 1Sodium Hydroxide 1310-73-2 0.1 - 1

Composition Comments 
Components not listed are either non-hazardous or are below reportable limits.

# Section 4 - First-aid Measures

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

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.

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

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

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

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 or effects, acute and delayed

Causes skin and eye burns.

Indication of immediate medical attention and special treatment needed

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

General fire hazards

/instructions

Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.

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.

Mothods and mat

Methods and materials for containment and cleaning up

Small Spills: Absorb spillage with suitable absorbent material.

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) TWA 240 mg/m³, 50 ppm

Sodium Hydroxide (CAS 1310-73-2) TWA 2 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values

Component Type Value Form

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

US. NIOSH: Pocket Guide to Chemical Hazards

Components Type Value

2-Butoxyethanol (CAS 111-76-2) TWA 24 mg/m³, 5 ppm

Sodium Hydroxide (CAS 1310-73-2) Ceiling 2 mg/m<sup>3</sup>

 US. ACGIH. BEIs. Biological Exposure Indices
 Sampling

 Components
 Value
 Determinate
 Specimen
 Time

 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 Exposure

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 If use of product risks exposure to contact, wear safety glasses with side shields.

Skin protection

Hand protection Impervious gloves are recommended for prolonged use.

Other If use of product risk exposure to contact, wear suitable protective 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

**Physical state** Liquid. Form Clear Liquid. Color Light Green. Odor Citrus. Odor threshold Not available. 12.6 - 13.2 pН

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  $1.01 \pm 0.01$ Relative density temperature 75 °F (23.9 °C) Solubilities (water) 100 % Soluble. Partition Coefficient n-Not available.

octanol/water

Viscosity

Auto-ignition temperature Not available. **Decomposition temperature** Not available.

< 10 cP

**Viscosity Temperature** 75 °F (23.9 °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.

Eve contact Causes serious eye damage.

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 Type Code Species Results Level 2-Butoxyethanol (CAS 111-76-2) LD50 Rabbit 400 mg/kg Dermal Acute Acute Inhalation LC50 Mouse 700 ppm, 7 hours Acute Inhalation LC50 Rat 450 mg/l, 4 hrs Oral Acute LD50 Guinea pig 1.2 g/kg Acute Oral LD50 Mouse 1519 mg/kg Rabbit Acute Oral LD50 0.32 g/kg Acute Oral LD50 Rat 560 mg/kg Sodium dimethylbenzenesulfonate (CAS 1300-72-7) Dermal LD50 Rabbit >2000 mg/kg Acute

Acute Oral LD50 Rat 7200 mg/kg Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit 500 mg/kg

Skin corrosion/irritation Causes skin burns.

Serious eye damage/ eye

Causes serious eye damage.

irritation

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Component Result

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

Reproductive toxicity Not classified.

Specific target organ toxicity -

single exposure

Irritating to respiratory system.

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

have not been observed in humans.

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

## Section 12 - Ecological Information

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

Component(s)

Nonylphenol, ethoxylated (CAS 9016-45-9)

Aquatic

Leve Type Code Species **Test Results** Acute Crustacea FC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours

Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours

Persistence and degradability The product is expected to be biodegradable.

Bioaccumulative potential Not known.

Partition coefficient n-octanol / water log (Kow)

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

4-Nonylphenol, branched, ethoxylated (CAS 127087-87-0) 2.1 - 3.4 (Calculated)

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

**General Information** This product is customer diluted for on site use only. No transportation information is anticipated or provided. The

regulatory transport classification of the product without consideration to dilution strength, packaging, quantity, or modal restrictions and exceptions can not be anticipated. It is the user's responsibility to determine the appropriate packaging and

modal requirements and/or limitations for the product quantity being shipped.

# 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

Components Result
2-Butoxyethanol (CAS 111-76-2) LISTED
Sodium Hydroxide (CAS 1310-73-2) 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
ardous substance Not list

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

SARA 313 (TRI reporting)

 Chemical name
 CAS #
 % by wt.

 2-Butoxyethanol
 111-76-2
 0.5 - 2

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) 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

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

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

2-Butoxyethanol (CAS 111-76-2)

Sodium Hydroxide (CAS 1310-73-2)

US.Pennsylvania RTK - Hazardous Substances Components

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

US.Rhode Island RTK Components

2-Butoxyethanol (CAS 111-76-2)

Sodium Hydroxide (CAS 1310-73-2)

US - California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This

material is not known to expose you to any chemicals currently listed as carcinogens or

reproductive toxins.

**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 Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>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

Revision date 6/1/2023 Version # 03

HMIS Hazard Codes Health 2 Flammability 0 Physical Hazard 0 PPE E

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.

<sup>\*</sup>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).