World Class Cleaning Solutions®

NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier ASTRO-CHEM Industrial Degreaser Cleaner Concentrate

Other means of identification 1020

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.

Classification Category

Physical Hazards Not Classified

Health Hazards Serious eye damage/eye irritation

Skin corrosion/irritation

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

1

1

irritation

OSHA defined hazards

Label Elements

Hazard Symbol



None known.



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.

Section 3 - Composition/Information on ingredients

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)

				á
Mixture				
Hazardous Components	Ingredient Name	CAS#	%	
	2-Butoxyethanol	111-76-2	5 - 10	
	Sodium dimethylbenzenesulfonate	1300-72-7	1 - 5	
	Sodium dodecylbenzenesulfonate	25155-30-0	1 - 5	
	Sodium Hydroxide	1310-73-2	1 - 5	
	Sodium Silicate	1344-09-8	1 - 5	
	Nonylphenol, ethoxylated	9016-45-9	1 - 5	

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 /effects, acute and delayed Indication of immediate medical Causes skin and eye burns.

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

Not available.

media

the chemical

Specific hazards arising from Nor

None known.

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6 - Accidental release measures

and precautions for firefighters Fire-fighting equipment

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

/instructions
General fire hazards

This product is not flammable or combustible.

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

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

Components

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/m³

US. ACGIH Threshold Limit Values

Component Type Value Form

Value

2-Butoxyethanol (CAS 111-76-2) TWA 20 ppm Sodium Hydroxide (CAS 1310-73-2) Ceiling 2 mg/m^3

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/m³

US. ACGIH. BEIs. Biological Exposure Indices

Sampling
Determinate Specimen Time

Creatinine in urine

1020

2-Butoxyethanol (CAS 111-76-2) 200 mg/g Butoxyacetic acid (BAA), with hydrolysis

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

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).

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

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.Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.) Components Exposure

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

US.Tennesee. OELs Occupational Exposure Limkits, Table Z1A

Components

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

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 Clear. Physical state Liauid. Liquid. Form Colo Green. Citrus. Odor Odor threshold Not available.

13.3 рΗ

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

boiling range

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.

Not available. Explosive limit - upper (%) Vapor pressure Similar to water. Vapor density Similar to water. Relative density 1.03 ± 0.01 Relative density temperature 75 °F (23.9 °C) Solubilities (water) 100 % Soluble.

Not available

Partition Coefficient n-octanol/water

Auto-ignition temperature Not Available **Decomposition temperature** Not Available Viscosity < 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 Species Results Level Code 2-Butoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit 400 mg/kg Inhalation LC50 700 ppm, 7 hours Acute Mouse Inhalation 450 mg/l, 4 hrs Acute LC50 Rat Acute Oral LD50 Guinea pig 1.2 g/kg LD50 1519 mg/kg Acute Oral Mouse Oral LD50 Rabbit 0.32 g/kg Acute Acute Oral LD50 Rat 560 mg/kg Oral LD50 4290 mg/kg, bw Nonylphenol, ethoxylated (CAS 9016-45-9) Acute Mouse Sodium dimethylbenzenesulfonate (CAS 1300-72-7) Acute Dermal LD50 Rabbit >2000 mg/kg Acute Oral LD50 Rat 7200 mg/kg Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit 500 mg/kg Sodium Silicate (CAS 1344-09-8) Acute Dermal LD50 Rabbit >4640 mg/kg

Oral

Acute Skin corrosion/irritation Causes skin burns

Serious eye damage/ eye irritation

Causes serious eye damage.

Respiratory sensitization Skin sensitization

Germ cell mutagenicity

Not classified. Not classified. Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Result Component Comment

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

humans.

LD50

Rat

1.1 g/kg

Reproductive toxicity Not classified.

Specific target organ toxicity -

Irritating to respiratory system.

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure

Not classified.

Aspiration hazard

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)

Sodium dodecylbenzenesulfonate, 25155-30-0

Aquatic

Level Type Code Species Test Results

Acute Crustacea EC50 Water flea (Ceriodaphnia dubia) 3.26-14.51 mg/l , 48 hrs.

Fish LC50 Rainbow trout, donaldson trout 3.2-5.6 mg/l, 96 hrs.

(Oncorhynchus mykiss)

Nonylphenol, ethoxylated, 9016-45-9

Aquatic

Acute Crustacea EC50 Daphnia magna

CrustaceaEC50Water flea (Daphnia magna)12.2 mg/l, 48 hoursFishLC50Bluegill (lepomis macrochirus)1 - 1.8 mg/l 96 hours

Bioaccumulative potential Not known.

Partition coeficient n-octanol / water log (Kow)

ComponentsResults2-Butoxyethanol (CAS 111-76-2)0.83Sodium dodecylbenzenesulfonate (CAS 25155-30-0)0.45

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

Proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packing group II

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

Special provisions B2, IB2, N34, T7, TP2

Packaging exemption 154
Packaging non bulk 202
Packaging bulk 242

IATA

IMDG

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packaging group II
Environmental hazards No.
ERG Code 8L

Special precautions for user

Other Information

Read safety instructions, SDS and emergency procedures before handling.

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packaging group II
Environmental hazards No.

Marine pollutant

EmS F-A, S-B

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

65 mg/l, 48 hours

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

Components Result
Sodium Hydroxide (CAS 1310-73-2) LISTED
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) 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)

 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

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

Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

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

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

Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

US.Pennsylvania RTK - Hazardous Substances Components

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

Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

US.Rhode Island RTK Components

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

Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

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

material is not known to contain 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

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- *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

 Revision date
 1/17/2018

 Version #
 02

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review these regulations to ensure full compliance.