NATIONAL CHEMICAL LABORATORIES, INC.

World Class Cleaning Solutions®

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	BARE BONES®SC Stripper Super Concentrate
Other means of identification	5092
Recommended use	Floor finish remover.
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	Flammable Liquids	4	
Health Hazards	Acute toxicity, dermal	4	
	Acute toxicity, inhalation	4	
	Acute toxicity, oral	4	
	Serious eye damage/eye irritation	1	
	Skin corrosion/irritation	1	
	Specific target organ toxicity, single exposure	3	TARGET ORGAN: respiratory tract irritation
OSHA defined hazards	Not Classified.		

Label Elements

Hazard Symbol

Signal Word	Danger
Hazard Statement	Causes severe skin burns and eye damage. Harmful if swallowed, in contact with skin or if inhaled. May cause respiratory irritation. Combustible liquid.

Precautionary statement

Prevention	Do not breathe mist or vapor. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Keep away from heat / sparks / open flames / hot surfaces / no smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.
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. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Not classified.

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components

Ingredient Name	CAS #	%
2-Butoxyethanol	111-76-2	70 - 80
2-Amino Ethanol	141-43-5	20 - 30

Section 4 - First-aid Measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Skin contact	Remove contaminated clothing and shoes. Immediately flush skin with plenty of water. Get prompt medical attention. 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. Get medical attention immediately.
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	Causes skin and eye burns. May cause respiratory tract irritation. Symptoms may be delayed.
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. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm.

Section 5 - Fire-fighting measures

Suitable extinguishing media	Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. 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.

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	Contain spill. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Flush area 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. Keep container closed. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep container closed. Keep out of reach of children.

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-Amino Ethanol (CAS 141-43-5)	TWA	6 mg/m³ , 3 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	240 mg/m³ , 50 ppm	

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
2-Amino Ethanol (CAS 141-43-5)	STEL	6 ppm	
2-Amino Ethanol (CAS 141-43-5)	TWA	3 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	STEL	15 mg/m³, 6 ppm
2-Amino Ethanol (CAS 141-43-5)	TWA	8 mg/m³ , 3 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m³, 5 ppm

US. ACGIH. BEIs. Biological Exposure Indices

Components	Value	Determinate	Specimen	Sampling 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 controls Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Provide easy access to water 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 If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Section 9 - Physical and chemical properties

Appearance

Physical state Liquid.

Form Clear Liquid.

Color Straw-Amber

Odor Sassafras.

Odor threshold Not available.

pH 11.2 ± 0.2 (Diluted @ 1:20)

Melting point/freezing point Not available.

Initial boinging point and boiling range 340 °F (171.1 °C)

Flash point 157°F (69.4°C) TCC

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 0.93 ± 0.01

Relative density temperature	75 °F (23.9 °C)
Solubilities (water)	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 (23.9 °C)

Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possiblity of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from heat and direct sunlight. Contact with incompatible materials.
Incompatible materials	Oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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. May cause burns in mucous membranes, throat, esophagus and stomach.
Skin contact	Causes skin burns.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Causes skin and eye burns. May cause respiratory tract irritation. Symptoms may be delayed.

Information on toxicological effects.

Acute toxicity Harmful if inhaled, absorbed through skin, or swallowed.

Components	Level	Type	Code	Species	Results
2-Amino Ethanol (CAS 141-43-5)	Acute	Dermal	LD50	Rabbit	1025 mg/kg
	Acute	Oral	LD50	Rat	1715 mg/kg
2-Butoxyethanol (CAS 111-76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg
	Acute	Inhalation	LC50	Mouse	700 ppm, 7 hours
	Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
	Acute	Oral	LD50	Guinea pig	1.2 g/kg
	Acute	Oral	LD50	Mouse	1519 mg/kg
	Acute	Oral	LD50	Rabbit	0.32 g/kg
	Acute	Oral	LD50	Rat	560 mg/kg

Skin corrosion/irritation	Causes skin burns.
Serious eye damage/ eye irritation	Causes serious eye damage.
Respiratory sensitization	Not classified.
Skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.

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 - 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 is not classified as environmentally hazardous. However, this does not exclude the possibility that large or

frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability The product is expected to be biodegradable.

Bioaccumulative potential Not known.

Partition coeficient n-octanol / water log (Kow)

Components	Results
2-Amino Ethanol (CAS 141-43-5)	-1.31
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 UN2491

Proper shipping name Ethanolamine solution

Transport hazard class(es) 8

Subsidary class(es) -

Packing group III

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

Labels required 8

Special provisions IB3, T4, TP1

Packaging exemption 154

Packaging non bulk 203

Packaging bulk 241

IATA

UN number UN2491

UN proper shipping name Ethanolamine solution

Transport hazard class(es) 8

Subsidary class(es) -

Packaging group III

Environmental hazards No

Labels required Not available.

ERG Code 8L

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

Other Information

IMDG

UN number UN2491

UN proper shipping name ETHANOLAMINE SOLUTION

Transport hazard class(es) 8

Subsidary class(es) -

Packaging group III

Environmental hazards No.

Marine pollutant

Labels required Not available.

EmS F-A, S-B

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

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 on regulatory list.
CERCLA Hazardous Substance List (40 CFR 302.4

Components	Result
2-Butoxyethanol (CAS 111-76-2)	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
SARA 302 Extremely hazardous substance		No
SARA 311/312 Hazardous chemical		Yes

SARA 313 (TRI reporting)

Chemical name	CAS #	% by wt.
2-Butoxyethanol	111-76-2	70 - 80

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-Amino Ethanol (CAS 141-43-5) 2-Butoxyethanol (CAS 111-76-2)
US.New Jersey Worker and Community Right-to-Know Act	Components 2-Amino Ethanol (CAS 141-43-5) 2-Butoxyethanol (CAS 111-76-2)
US.Pennsylvania RTK - Hazardous Substances	Components 2-Amino Ethanol (CAS 141-43-5) 2-Butoxyethanol (CAS 111-76-2)
US.Rhode Island RTK	Components 2-Amino Ethanol (CAS 141-43-5) 2-Butoxyethanol (CAS 111-76-2)
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)**	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)**	Yes
Europe	**European List of Notifed Chemical Substances (ELINCS)**	No
Japan	**Inventory of Existing and New Chemical Substances (ENCS)**	No
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

Revision date 1/17/2018
Version # 02

Disclaimer

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