



World Class Cleaning & Hygiene Solutions™

NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier PIZZAZZ Soil & Finish Build Up Remover
Other means of identification 2008-2
Recommended use Soil & Floor Finish Build-Up 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	Gasses under pressure	Liquefied gas
	Flammable Aerosols	2
Health Hazards	Acute toxicity, inhalation	4
	Serious eye damage/eye irritation	2
	Skin corrosion/irritation	2
OSHA defined hazards	Not Classified.	

Label Elements

Hazard Symbol



Signal Word

Warning

Hazard Statement

HARMFUL IF INHALED; CAUSES SKIN IRRITATION; Causes serious eye irritation; Flammable Aerosol; Contains gas under pressure; may explode if heated

Precautionary statement

Prevention

Avoid breathing fumes, mist, vapors or spray.; Use only outdoors or in a well-ventilated area; Wash face, hands and any exposed skin thoroughly after handling; Wear protective gloves, protective clothing, eye protection and face protection.; Keep away from heat, sparks, open flames and hot surfaces. — No smoking; Do not spray on an open flame or other ignition source; Pressurized container: Do not pierce or burn, even after use

Response

Specific treatment: See additional cautionary statements on this label.
 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
 IF ON SKIN: Wash with plenty of soap and water; If skin irritation occurs: Get medical advice/attention; Take off contaminated clothing and wash before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor if you feel unwell

Storage

Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

MAY BE HARMFUL IF SWALLOWED
 No information available

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components	Ingredient Name	CAS #	%
	Water	7732-18-5	80 - 85
	2-Butoxyethanol	111-76-2	5 - 10
	Butane	106-97-8	1 - 5
	Morpholine	110-91-8	1 - 5

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Propane

74-98-6

1 - 5

Composition Comments Hazardous components according to OSHA, are listed when present at 1% or greater. Carcinogenes are listed when present at 0.1% or greater. The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 - First-aid Measures

Inhalation If overcome by vapor, move person to fresh air. Restore respiration if necessary. Get medical attention if injury develops.
Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion Ingestion from an aerosol product is unlikely to occur.

Most Important symptoms or effects, acute and delayed

Acute: Prolonged inhalation of concentrated vapor or mist can cause nasal and respiratory irritation, headaches, dizziness and nausea. Prolonged contact with skin can cause irritation, burning, redness and pain. Contact with eyes causes irritation, burning, tearing, redness and blurred vision. Chronic: 2-butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage.

Indication of immediate medical attention and special treatment needed

None needed.

Section 5 - Fire-fighting measures

Suitable extinguishing media Dry chemical, CO2 or water spray.
Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous combustion products: Thermal decomposition may yield gases like ammonia, carbon monoxide, carbon dioxide, formaldehyde and nitrogen compounds.

Explosion data: Sensitivity to Mechanical Impact Contents under pressure, keep away from heat and open flame. Sensitivity to Static Discharge Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).
Special protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures. Personal precautions: Use with adequate general or local exhaust ventilation.
For emergency responders: Remove all sources of ignition.
Methods and materials for containment and cleaning up Methods for Containment: Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

Methods for cleaning up: Clean contaminated surface thoroughly.
Environmental precautions See Section 12 for additional Ecological Information.

Section 7 - Handling and storage

Precautions for safe handling Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes.
Conditions for safe storage, including any incompatibilities Storage Conditions: Store in a cool, dry place away from heat and open flame. Keep out of reach of children. AEROSOL STORAGE LEVEL I (NFPA-30B).

Incompatible Materials: Avoid heat and open flame. Avoid contact with alcohols, ketones, nitrites and strong oxidizing agents.

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/m ³ , 50 ppm	
Butane (CAS 106-97-8)	TWA	1000 ppm	
Morpholine (CAS 110-91-8)	TWA	20 ppm, 70 mg/m ³	
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ , 1000 ppm	
Propane (CAS 74-98-6)	TWA	1000 ppm	

US. ACGIH Threshold Limit Values

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Component	Type	Value	Form
Butane (CAS 106-97-8)	TLV	1000 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Propane (CAS 74-98-6)	TLV	1000 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Morpholine (CAS 110-91-8)	TWA	20 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m ³ , 5 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m ³ , 800 ppm
Morpholine (CAS 110-91-8)	STEL	30 ppm, 105 mg/m ³
Morpholine (CAS 110-91-8)	IDLH	1400 ppm
Morpholine (CAS 110-91-8)	TWA	20 ppm, 70 mg/m ³
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ , 1000 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), with hydrolysis	Creatinine in urine	*

* - 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 through 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 through 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 through the skin.

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

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.

US. Tennessee. OELs Occupational Exposure Limkits, Table Z1A

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.

Appropriate engineering controls Use with adequate general or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Conventional eyeglasses to guard against splashing.

Skin protection

Hand protection Rubber, vinyl or household type gloves required.

Respiratory protection Use in a well-ventilated area ONLY. WHEN USING INDOORS, KEEP WINDOWS AND DOORS OPEN UNTIL FUMES DISSIPATE. A NIOSH-approved air purifying respirator may be necessary where airborne concentrations exceed the exposure levels.

General hygiene considerations Wash hands thoroughly after handling.

Section 9 - Physical and chemical properties

Appearance	Cloudy, white liquid.
Physical state	Aerosol
Color	White.
Odor	Mint.
Odor threshold	Not available.
pH	9.75 to 10.25
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) liquid
Flash point	Not available.

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Evaporation rate	Faster than butyl acetate
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	Not available.
Vapor density	Not available.
Relative density	1.0 concentrate
Relative density temperature	75 °F (23.9 °C)
Solubilities (water)	Soluble in water.
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other Information	
VOC's	17.35

Section 10 - Stability and reactivity

Reactivity	Not applicable
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Temperatures above 130 °F may cause cans to burst with force. Hazardous polymerization does not occur.
Conditions to Avoid	Temperatures above 122 °F (50 °C).
Incompatible materials	Avoid heat and open flame. Avoid contact with alcohols, ketones, nitrites and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	This is an aerosol product, ingestion is unlikely to occur.
Inhalation	Over inhalation of vapor or mist may cause severe irritation to the nose, throat and respiratory tract.
Skin contact	2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts. Morpholine can cause redness, burning and swelling of the skin.
Eye contact	Irritant to eyes. It may cause tearing, redness and swelling of the eyes.
Symptoms related to the physical, chemical and toxicological characteristics	Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Information on toxicological effects.

Acute toxicity

Components	Level	Type	Code	Species	Results
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
Butane (CAS 106-97-8)	Acute	Inhalation	LC50	Mouse	1237 mg/l, 120 Minutes
	Acute	Inhalation	LC50	Rat	1355 mg/l
Morpholine (CAS 110-91-8)	Acute	Dermal	LD50	Rabbit	310 - 810 mg/kg
	Acute	Inhalation	LC50	Rat	> 8000 ppm
	Acute	Oral	LD50	Rat	1050 mg/kg
Propane (CAS 74-98-6)	Acute	Inhalation	LC50	Mouse	1237 mg/l, 120 Minutes
	Acute	Inhalation	LC50	Rat	1355 mg/l 658mg/l/4h

Skin corrosion/irritation	May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts. Morpholine can cause redness, burning and swelling of the
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	skin.									
Serious eye damage/ eye irritation	Can cause irritation after contact with the eyes.									
Respiratory sensitization	This product is not expected to cause respiratory sensitization.									
Skin sensitization	This product is not expected to cause skin sensitization.									
Germ cell mutagenicity	No information available.									
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.									
IARC Monographs. Overall Evaluation of Carcinogenicity										
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Component</th> <th style="text-align: left;">Result</th> <th style="text-align: left;">Comment</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol (CAS 111-76-2)</td> <td>3</td> <td>Not classifiable as to carcinogenicity to humans.</td> </tr> <tr> <td>Morpholine (CAS 110-91-8)</td> <td>3</td> <td>Not classifiable as to carcinogenicity to humans.</td> </tr> </tbody> </table>	Component	Result	Comment	2-Butoxyethanol (CAS 111-76-2)	3	Not classifiable as to carcinogenicity to humans.	Morpholine (CAS 110-91-8)	3	Not classifiable as to carcinogenicity to humans.
Component	Result	Comment								
2-Butoxyethanol (CAS 111-76-2)	3	Not classifiable as to carcinogenicity to humans.								
Morpholine (CAS 110-91-8)	3	Not classifiable as to carcinogenicity to humans.								
Reproductive toxicity	No information available.									
Specific target organ toxicity - single exposure	No information available.									
Specific target organ toxicity - repeated exposure	No information available.									
Aspiration hazard	Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.									
Further information	The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) 4541 mg/kg ATEmix (dermal) 9649 mg/kg ATEmix (inhalation-gas) 7359 mg/l ATEmix (inhalation-dust/mist) 13.2 mg/l ATEmix (inhalation-vapor) 3455 mg/l									

Section 12 - Ecological Information

Ecotoxicity	6.1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment			
Component(s)	2-Butoxyethanol (CAS 111-76-2)			
Aquatic				
Level	Type	Code	Species	Test Results
	Crustacea	EC50	Daphnia	>1000 mg/l, 48 hours
	Crustacea	EC50	Daphnia magna	1698 - 1940 mg/l, 24 hours
	Fish	LC50	Lepomis macrochirus	2950 mg/l, 96 hours
	Fish	LC50 Static	Lepomis macrochirus	1490 mg/l, 96 hours
Morpholine (CAS 110-91-8)				
Aquatic				
	Algae	EC50 Static	Pseudokirchneriella subcapitata	28 mg/l, 96 hours
	Crustacea	EC50	Daphnia magna	100 mg/l, 24 hours
	Fish	LC50	Oncorhynchus mykiss	375-460 mg/l, 96 hours
	Fish	LC50 Static	Brachydanio rerio	1,000 mg/l, 96 hours
	Fish	LC50 Static	Lepomis macrochirus	350 mg/l, 96 hours
Persistence and degradability	No information available.			
Bioaccumulative potential	No data available.			
Partition coefficient n-octanol / water log (Kow)				
Components			Results	
Butane (CAS 106-97-8)			2.89	
Propane (CAS 74-98-6)			2.36	
2-Butoxyethanol (CAS 111-76-2)			0.83	
Morpholine (CAS 110-91-8)			-2.55	
Other adverse effects	No information available.			

Section 13 - Disposal considerations

Disposal instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

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Section 14 - Transport information

DOT

UN number	UN1950
Proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	2.1
Packing group	Not Applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Labels required	None/Ninguno
Special provisions	N82
Packaging exemption	306
Packaging non bulk	None/Ninguno
Packaging bulk	None/Ninguno

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	2.1
Packaging group	Not Applicable.
Environmental hazards	Yes
Labels required	2.1
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other Information	
Passenger and Cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packaging group	Not Applicable.
Environmental hazards	No
Marine pollutant	
Labels required	2.1
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY

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

Section 15 - Regulatory Information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. DSL All ingredients are listed or are excluded from listing on the DSL.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Component	Result	Comment
Propane (CAS 74-98-6)		

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	Yes
	Pressure Hazard	Yes
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not regulated.

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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 (HAPs) List
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
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) Butane (CAS 106-97-8) Morpholine (CAS 110-91-8) Propane (CAS 74-98-6)
US.New Jersey Worker and Community Right-to-Know Act	Components Water (CAS 7732-18-5) 2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Morpholine (CAS 110-91-8) Propane (CAS 74-98-6)
US.Pennsylvania RTK - Hazardous Substances	Components 2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Morpholine (CAS 110-91-8) Propane (CAS 74-98-6)
US.Rhode Island RTK	Components 2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6)
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 Notified 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	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	1/9/2024			
Version #	1			
HMIS Hazard Codes	Health 1	Flammability 2	Physical Hazard 1	PPE B

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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.