


SECTION 1: Identification

Product Name	PC109 UHS Cleaner and Restorer	Item Code	PC109
Recommended Use	Concentrated pre-burnish floor cleaner and restorer for use in autoscrubber.		
Supplier	Next-Gen Supply Group 11 Norfolk Street Mansfield, MA 02048 877-452-6726	Emergency Telephone	
		INFOTRAC: 1-800-535-5053	

SECTION 2: Hazard(s) identification

Warning 	Hazards not otherwise classified or not covered by GHS		
	None		
Hazard Statement	Hazard Class (GHS Chapter)	Category	
Causes mild skin irritation	Skin corrosion/irritation (3.2)	3	
Harmful if swallowed or in contact with skin	Acute toxicity, oral (3.1) Acute toxicity, inhalation (3.1)	4	
Causes serious eye irritation	Serious eye damage/eye irritation (3.3)	2A	
Harmful to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard (4.1)	3	

Precautionary Statement

If swallowed, rinse mouth. Call a doctor or medical professional, if you feel unwell.
Wear eye/face protection.
If in eyes, rinse carefully with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.
If on skin, wash affected areas with plenty of water.
Remove contaminated clothing and wash before reuse.
If skin irritation persists, get medical attention.
Wash skin and clothing thoroughly after handling.
Use as intended and avoid release to the environment.
Dispose of contents and container in accordance with local, regional, and national regulations.

SECTION 3: Composition/Information on Ingredients

Chemical identity	Common name, synonyms, etc.	CAS #	%
2-butoxy ethanol	Butyl Cellosolve, Solvent EB, 2- butoxy-1-ethanol, Butyl oxitol, Butyl glycol, Ektasolve EB, Ethylene glycol butyl ether, Glycol EB, N-Butoxyethanol. Monobutyl glycol ether, Downaol EB, Ethylene glycol butyl ether	111-76-2	15-19
Monoethanolamine	MEA, 2-Aminoethanol, ETA	141-43-5	4 – 5.5
Ammonia aqueous	Ammonia water, ammonium hydroxide solution	1336-21-6	1 - 2

SECTION 4: First Aid Measures

If medical advice is needed, have product container or label at hand.

Necessary measures for routes of exposure	IF SWALLOWED: Harmful if swallowed. Rinse mouth. DO NOT induce vomiting. Call 911 or emergency medical service.
	IF ON SKIN: Remove contaminated clothing and wash before reuse. Rinse affected areas with plenty of soap and water or shower. If skin irritation occurs, get medical attention.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.
Most important symptoms/effects, acute and delayed.	Acute exposure may cause skin redness/irritation or eye irritation.
Immediate medical attention and special treatment, if necessary	Move victim to fresh air. Immediately call 911 or medical aid.

SECTION 5: Fire-fighting Measures

Suitable extinguishing media.	Dry chemical, CO ₂ , alcohol resistant foam or water spray
Specific hazards arising from the chemical	None
Special protective equipment and precautions for fire-fighters.	Wear positive pressure, self-contained breathing apparatus (SCBA). Wear chemical protective clothing specifically recommended by the manufacturer. It may provide little or no thermal protection.
Emergency Response Guide Number	140

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.	Keep away from clothing and other combustible materials. Chemically protective gloves, clothing and safety eyewear are recommended.
Environmental precautions.	Prevent entry into waterways, sewers, basements or confined areas. Collect spillage.
Methods and materials for containment and cleaning up.	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements, or confined areas. Absorb or cover with non-combustible absorbent material and transfer to containers. Collect spillage. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 7: Handling and Storage

Precautions for safe handling.	Do not eat, drink or smoke in areas where this material is used. After handling, always wash hands thoroughly with soap and water. Wear protective nitrile gloves, clothing, eyewear, and face protection. Use only with adequate ventilation/personal protection. Avoid strong oxidizing agents and metals.
Conditions for safe storage, including any incompatibilities.	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Store containers in a cool, dry, ventilated area away from sources of ignition and incompatible materials, Keep containers tightly closed and properly labeled. Store in original containers. Do not store in ferrous containers.

SECTION 8: Exposure Controls/Personal Protection

Component	CAS #	Type	Value	Basis
2-Butoxy ethanol	111-76-2	TWA	20 ppm	USA ACGIH Threshold Limit Values (TLV)
		TWA	5 ppm 24mg/m ³	USA, NIOSH Recommended Exposure Limits
		TWA	50ppm 240 mg/m ³	USA, Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
Remarks: Eye, skin and upper respiratory tract irritation, potential for dermal absorption.				
Monoethanolamine	111-76-2	TWA	3 ppm	USA ACGIH Threshold Limit Values (TLV)
		STEL	6ppm	USA, ACGIH Threshold Limit Values (TLV)
		TWA	3 ppm 6 mg/m ³	USA, Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
		STEL	3 ppm 6 mg/m ³	USA, Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
		TWA	3 ppm 8 mg/m ³	USA, NIOSH Recommended Exposure Limits
		ST	6 ppm 15 mg/m ³	USA, NIOSH Recommended Exposure Limits
Remarks: Skin and eye irritant				
Ammonium Hydroxide	1336-21-6	TWA	25ppm	USA ACGIH Threshold Limit Values (TLV)
Remarks: Upper respiratory tract irritation, eye damage				
		STEL	35ppm	USA, ACGIH Threshold Limit Values (TLV)
		TWA	25ppm	USA, NIOSGH Recommended Exposure Limits
Remarks: Eye, skin and upper respiratory tract irritation, Central Nervous System impairment, lung damage, sensitizer varies. Not classifiable as a human carcinogen.				
Control parameters	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after the workday. Avoid skin and eye contact with this product. Control spillage.			
Appropriate engineering controls	Provide local ventilation. Respiratory equipment is not required. For nuisance exposures use type OV/AG (US) respiratory cartridges. Wear tightly fitted safety eyewear or face shield.			
Individual protection measures	Handle with nitrile gloves, which have been inspected prior to use. Safety eyewear is required. Long term exposure could irritate skin and eyes.			

SECTION 9: Physical and Chemical Properties

Appearance	Blue transparent liquid	Specific Gravity	0.99-1.02
Odor	Aromatic odor	Boiling Point	Ca 212°F
Odor threshold	No data available	Solubility in Water	Complete
pH at concentrate	11.5-12.5	Evaporation Rate	Similar to water
pH at use dilution	9.5-10.5	Volatile Organic Compound	15-18%

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	Oxidizers, acids, halogens, light metals, copper, ferrous metals and aluminum.
Hazardous decomposition products	No data available

SECTION 11: Toxicological Information

IARC	3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxy ethanol CAS 111-76-2)
ACGIH	No component of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by ACGIH
NTP	No component of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP
OSHA	No component of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by OSHA

Additional Information	<p><u>2-Butoxy ethanol CAS 111-76-2</u> Acute Toxicity LD50 Oral-rat -470 mg/kg. LC50 Inhalation -rat-4 h-40 ppm. Remarks: Behavioral: Ataxia, Nutritional and Gross Metabolic: Weight loss or decreased weight gain. LD50 Dermal-rabbit- 220 mg/kg. LD50 Intraperitoneal-rat-220mg/kg. LD50 intravenous-rat-307mg/kg. Skin corrosion/irritation, skin-rat, open irritation test. Serious eye damage/eye irritation eyes-rabbit Moderate eye irritation 24 hr. RTECS:KJ8575000 Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings. Central nervous system depression, Headache, narcosis Stomach - Irregularities - Based on Human Evidence.</p>
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SECTION 11: Toxicological Information (continued)**Additional Information (continued)**Ammonium Hydroxide CAS 1336-21-6

Acute Toxicity: LD50 Oral-Rat-350 mg/kg. Remarks: Gastrointestinal: Other changes. Liver: Other changes, Kidney, Ureter, Bladder: Other changes. Inhalation: No data available Skin corrosion/irritation, no data available.

RTECS: Not available. Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx. Inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Monoethanolamine CAS 111-76-2

Acute Toxicity – LD50 Oral-Rat- 1,720 mg/kg. Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. LD50 Dermal-rabbit- 1,015mg/kg. Serious eye damage/eye irritation, eyes – Rabbit.

RTTECS:KJ5775000

Liver-Irregularities-Based on Human Evidence

SECTION 12: Ecological Information

No data on mixture. 2-Butoxy ethanol CAS 111-76-2 is toxic to fish LC50- other fish- 220mg/l-96 hr. Monoethanolamine CAS 111-76-2 is toxic to fish LC50- Pimephales prometas(fathead minnow) 227mg/l-96 hours. Toxicity to algae EC50- Desmodesmus subspicatus (green algae)-15mg/l-72 hr.

SECTION 13: Disposal Considerations

Dispose of contents/container in accordance with local/state/federal and international regulations. Collect spillage. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of contaminated packing as unused product.

SECTION 14: Transport Information

Not US DOT classified for transport

SECTION 15: Regulatory Information

2-Butoxyethanol CAS 111-76-2 is subject to the reporting requirements of SARA Title III, Section 313

2-Butoxyethanol CAS 111-76-2 is a SARA 311/312 Hazards, Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Monoethanolamine CAS 1141-43-5 is a SARA 311/312 Hazards, Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Ammonium Hydroxide CAS 1336-21-6 is a SARA 311/312 Hazard: Acute Health Hazard

Ammonium Hydroxide CAS 1336-21-6 is subject to the reporting requirements of SARA Title III, Section 313.

Monoethanolamine CAS 141-43-5. NJ, PA, MA Right- to- Know chemical

Ammonium Hydroxide CAS 1336-21-6 is a NJ, PA, MA Right- to- Know chemical

California Prop. 65: This product does not contain any chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

Revision prepared 05/31/2016 by Gene Ricciardelli in accordance with OSHA 29 CFR 1910.1200, for USA use only.
Previous Version Dated 12/22/2014