

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: AC-2010 MSDS Revision: 00004 Revision Date: 11/15/2022

Description Alkaline Water-based Cleaner

Product Number: 0000840

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Aero Clean Technologies, LLC

1320 Stephenson Ave Lynchburg, VA 24501

For More Information Call: 434-381-0699 (Monday-Friday 7:00-6:00) In Case of Emergency Call: 765-271-0430 (24 Hours/Day, 7 Days/Week)

WHMIS Classification / Symbol:

E: Corrosive Material at (>1%)



Signal Word: Danger! **Hazard Statements**

May cause an allergic skin reaction

Precautionary Statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children. P103 Read label before use.

P264 Wash...thoroughly after handling

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

P304 + P340IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P331 Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

2. COMPOSITION, INFORMATION ON INGREDIENTS (Not Intended As Specifications)

Description	CAS Number	Concentration
Urea	57-13-6	15 - 19
Ethylene Glycol Monobutyl Ether	111-76-2	4 - 6
Linear Alkyl, Aryl Sulphonic Acid	68584-22-5	0 - 1
Tetrasodium Ethylenediaminetetraacetate Tetrahydrate	64-02-8	0 - 1
Potassium Hydroxide	1310-58-3	0 - 1
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	0 - 1
Sodium Silicate	1344-09-8	0 - 1
Ammonium Hydroxide	1336-21-6	0 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3. HAZARDS IDENTIFICATION

Overview Material is corrosive and will burn eyes. Can cause skin defatting and irritation with prolonged exposure.

Inhalation may cause headache, nausea, dizziness. Prolonged exposure may lead to dermatitis. Ingestion may lead

to vomiting. Severe overexposures may lead to coma and possible death due to respiratory failure.

Inhalation Inhalation of product may cause headache, nausea, and dizziness.

Skin Contact Can cause skin defatting and irritation with prolonged exposure.

Skin Absorption None noted.

Product contact to the eye may cause irritation, redness and pain. Product residues on fingers, hands or gloves **Eve Contact**

may contact the eyes and cause eye irritation, redness and pain.

Ingestion Ingestion of this product causes irritation of the mouth and throat. Ingestion may lead to vomiting and abdominal

pain.

Other None noted.

4. FIRST-AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of General

> this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an

unconscious or convulsing person.

Inhalation Remove to fresh air and restore breathing if necessary. Seek medical attention.

Skin Contact Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.

Eve Contact Immediately flush eyes with water for 15 minutes while holding eyelids open for maximum irrigation. Seek

medical attention.

Ingestion Seek immediate medical attention. DO NOT induce vomiting unless directed by medical personnel.

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities **Physicians Note:**

have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

LEL: None known UEL: None known Auto Ignition: None known Boiling Point > 121C (250F)

Unusual Fire or Exposion Hazards Decomposition products may include the following materials:

· carbon oxides · other hydrocarbons

Sensitivity to Mechanical Impact Not expected to be sensitive to mechanical impact.

Rate of Burning Not determined. **Explosive Power** Not determined. Sensitivity to Static Charge Not applicable.

Extinguishing Media Use an extinguishing agent suitable for the surrounding fire.

Instructions to Fire Fighters No special instructions.

Fire Fighting Protective Equipmen Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

> areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when

ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil,

or air).

Large Spill Handling

- Stop leak without risking safety.
- Move containers from spill area.
- Approach release from upwind.
- Prevent entry into sewers, water ways, basements, or confined areas.
- Wash spillages into an effluent treatment plant. If effluent treatment plant is not available then contain and collect spillage with non-combustible, absorbent material (i.e. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations (see Section 13).
- Dispose of via a licensed waste disposal contractor.
- Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small Spill Handling

Stop leak if without risking personal or enivormental well being. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSU	8. EXPOSURE CONTROLS/PERSONAL PROTECTION							
Urea								
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
Ethylene Gly	col Monobuty	l Ether						
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
20 ppm				50 ppm 240 mg/m3			5 ppm 24 mg/m3	
Linear Alky	l, Aryl Sulpho	nic Acid						
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
Not Established	Not Established		Not Established	Not Established		Not Established	Not Established	
Tetrasodium	L Ethylenedian	inetetraaceta	te Tetrahydra	te				
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
Potassium H	ydroxide		•	•		•	•	•
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
Not Established	Not Established	2 mg/m3	Not Established	Not Established	2 mg/m3 (Vacated)	Not Established	Not Established	Not Established

Poly(oxy-1,2	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hy							
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
C - 12 C212								
Sodium Silic	cate							
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
Ammonium	Ammonium Hydroxide							
	ACGIH			OSHA			NIOSH	
TWA	STEL	CEILING	TWA	STEL	CEILING	TWA	STEL	CEILING
25 ppm	35 ppm			50 ppm				
	I							

Personal Protective Equipment (PPE)









General PPE

Personal protective equipment selections vary based on potential exposure conditions such as applications. handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator

Hands

Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: NEOPRENE and NITRILE

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is

likely, wear gauntlet style gloves.

Chemical splash goggles or face shield should be used. Safety Glasses do not offer enough protection from spray Eyes

and splashing product.

Skin and Body Personal protective equipment for the body should be selected based on the task being performed and the risks

involved and should be approved by a specialist before handling this product.

Wash hands, forearms, and face thoroughly after handling chemical products prior to eating, smoking, using the Hygiene

lavatory, and at the end of the working periods. Appropriate procedures should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

9. – Physical and Chemical Properties Physical State: Liquid Density: 1.06 g/ml Appearance: Clear pH: 12.0 Color: Colorless to light amber Viscosity: Solubility in Water: Mostly soluble Odor: Mild Boiling Point: > 121C (250F)LEL: None known Vapor Density: 1 Freezing Point: Not determined UEL: None known Vapor Pressure: 10 Melting Point: Not determined Auto Ignition: None known Evaporation Rate: .5 VOC: 58 FlashPoint:

10. Stability and Reactivity

Stability Yes

Conditions to Avoid None known

Materials to Avoid Strong oxidizing agents.

Decomposition Carbon monoxide, Carbon Dioxide, and other hydrocarbons during combustion.

Polymerization None known

Ammonium Hydroxide					
Test Method	Dosage/Concentration				
LD50 (oral, rat)	350 mg/kg				
Ethylene Glycol Monobutyl Ether					
Test Method	Dosage/Concentration				
LD50 (dermal, guinea pig)	> 2,000 mg/kg				
LD50 (oral, guinea pig)	1,200 mg/kg				
Poly(oxy-1,2-ethanediyl), alpha-(4-no	nylphenyl)-omega-hydroxy-,				
Test Method	Dosage/Concentration				
LD50 (dermal, rabbit)	2.52 (0.96 - 6.59) ml/kg				
LD50 (oral, rat)	4.29 (3.07 - 5.98) ml/kg				
Potassium Hydroxide					
Test Method	Dosage/Concentration				
LD50 (oral, rat)	214 mg/kg				
Sodium Silicate					
Test Method	Dosage/Concentration				
LD50 (dermal, rabbit)	4640 mg/kg				
LD50 (oral, rat)	1153 mg/kg				
Tetrasodium Ethylenediaminetetraac	tate Tetrahydrate				
Test Method	Dosage/Concentration				
LD50 (dermal, rabbit)	> 5,000 mg/kg				
LD50 (oral, rat)	> 1,780 and $< 2,000$ mg/kg				
Urea					
Test Method	Dosage/Concentration				
LD50 (oral, rat)	8471 mg/kg				
12. ECOLOGICAL INFORMA	TION				

13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water, or on the ground unless it complies with local, state, and federal laws and regulation.

Empty containers retain product residue and can be dangerous. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. Do not dispose of package until thoroughly washed and rinsed out.

14. TRANSPORT INFORMATION

In accordance with ICAO/IATA/DOT/TDG

UN Number:

UN Proper Shipping Name NOT REGULATED, CLEANING COMPOUND NOI LIQUID

UN Class:

Package Group (DOT)

15. REGULATORY INFORMATION

All regulatory information is stated as provided by MSDS from manufacturer/distributor.

Ammonium Hydroxide

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

AMMONIUM HYDROXIDE (CAS 1336-21-6) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

AMMONIUM HYDROXIDE (CAS 1336-21-6) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Section 311 hazardous chemical: Yes

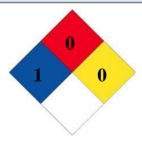
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-,

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND

COMMUNITY RIGHT TO KNOW ACT) SECTIONS 311 AND 312

Delayed (Chronic) Health Hazard : Yes **Immediate (Acute) Health Hazard :** Yes

16. OTHER INFORMATION



This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.