



SAFETY DATA SHEET

(Previously identified as MSDS: Material Safety Data Sheet)

Issue Date 15-November-2014

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Version 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AEROGREEN AC10 Rust Remover and Metal Prep

Other Means of Identification AeroGreen, Aero-Green, AC10 Rust Remover
SDS # AC10

Recommended Use of the Chemical and Restrictions on Use

Recommended Use removing rust from metal surfaces and profiling metal to increase coating adhesions.

Details of the Supplier of the Safety Data Sheet

Supplier Address

Aerogreen Solutions LLC
P.O. Box 399
1285 Brucetown Road
Clear Brook VA 22624

Emergency Telephone Number

Company Phone Number 1-540-450-8375
Emergency Telephone 1-540-450-8375
Web Address www.aerogreen.us

2. HAZARDS IDENTIFICATION

Classification

Clear Liquid with mild to no odor

Skin corrosion/irritation Category 1 Sub-category B

Serious eye damage/eye irritation Category 1

Hazard Statements Causes severe skin burns and eye damage



C: Corrosion

Signal Word Danger

Precautionary Statements – Prevention

Keep out of reach of children
Wash thoroughly after handling
Do not breathe mist/vapors/spray
Wear protective gloves/eye protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage Store locked up Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

NFPA ratings (scale 0 - 4)



3 Health = 3

0 Fire = 0

REACTIVITY 0 Reactivity = 0

HMIS Long Term Health Hazard Substances: None of the ingredient is listed.

Other Hazards

Results of PBT and vPvB assessment

PBT: Not Applicable

vPvB: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Phosphoric Acid	7664-38-2	>5-25%

Composition comments The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200. Composition Data Sheets (CDS) are available upon request identifying all ingredients.

*** As outlined in "The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012," states that the chemical name and concentration (i.e. exact percentage) of all ingredients which are ***classified as health hazards*** and are: Present above their cut-off/concentration limits or Present a health risk below the cut-off/concentration limits are to be listed .

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye Contact	Immediately flush with plenty of water. After 5minutes of flushing, remove contact lenses, if present. Continue flushing for at least 15 more minutes. If irritation persists seek medical attention.
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention is required.
Skin Contact	Wash thoroughly with soap and water until no traces of the chemical remain. Remove contaminated clothing and shoes. If skin irritation continues, or for blistering or open wounds immediate medical attention is required.

Most Important Symptoms and Effects, both Acute and Delayed Symptoms

May cause skin irritation with redness and swelling.

May cause gastrointestinal perforation

Danger of pulmonary edema

Danger of impaired breathing

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

None known. Cool containers exposed to flames with water until well after the fire is out.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid contact with skin, eyes. Wear appropriate protective clothing and equipment to prevent contact.
Environmental Precautions	Do not allow into open waterways or ground water systems.
Methods for Containment	Dike spill and prevent spill from entering sewers and waterways. Collect using an inert absorbent material and place in appropriate containers for disposal.
Methods Cleaning Up	Wash spill area with plenty of water. Keep in suitable, closed containers for disposal. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Protect container from physical damage. Ensure good ventilation/exhaust in the workplace. Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Do not store in metal containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Phosphoric Acid TWA: 1 STEL: 3 (mg/m³) from ACGIH (TLV) [United States] TWA: 1 STEL: 3 (mg/m³) from OSHA (PEL) [United States] TWA: 1 STEL: 3 (mg/m³) from NIOSH TWA: 1 STEL: 3 (mg/m³) [Mexico] Consult local authorities for acceptable exposure limits.

Appropriate Engineering Controls

Engineering Controls

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Showers. Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment



Skin and Body Protection: Butyl rubber or other impervious gloves should be used for prolonged exposure or for dermal sensitive individuals are required.



Eye/Face Protection: Wear approved safety goggles if splashing or spray back is likely.

Respiratory: Use in well ventilated area. Use suitable respiratory protective device in case of insufficient Ventilation. Use suitable respiratory protective device when aerosol or mist is formed.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Clear
Odor	Mild to no Odor
Flash Point	Non-Flammable
Boiling Point	F: 212 C: 100
Evaporation Rate	Same as water
Solubility in Water	100%
Freezing Point	F: <32 C: <0
pH of Concentrate	1.5-2.5
Vapor Pressure (mmHg) at 20°C	23 hPa
Density at 20°C	1.25 g/m ³
Specific Gravity (H ₂ O=1)	1.25
VOC SCAQMD Method 313.91	0 %
Weight per Gallon	9.0 lbs/per gallon

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur

Conditions to Avoid

Reacts with metals forming hydrogen. Reacts with various metals. Reacts with alkalis. Contact with metal and alkalis may release flammable hydrogen gas.

Incompatible Materials

Acids. Alkali. Caustic Sulfides. Cyanides. Organic peroxides. Halogenated organics. Sulfur oxides. Ammonia.

Hazardous Decomposition Products

Thermal decomposition may yield toxic hydrogen fluoride, nitric oxides and ammonia. Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Harmful if swallowed
Inhalation	Harmful if inhaled.

Symptoms May cause respiratory irritation with coughing and labored breathing. May cause severe chemical burns with reddening and pain. Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No further relevant information available.
Terrestrial Toxicity:	Low, based on toxicology profile
Persistence and degradability:	Not determined
Mobility:	Not determined
Bioaccumulation:	Not Applicable

Other Adverse Effects Not determined

This statement was deduced from products with a similar structure composition.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Phosphoric Acid 7664-38-2 California Hazardous Waste Status: Corrosive.

Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal Regulations for your location. Never dispose of used degreasing water, containing low concentrations of contaminants, resulting from the cleaning of containers etc. into lakes, streams, and open bodies of water or storm drains.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT , ADR, IMDG, IAT	UN1760 Phosphoric Acid, solutions, mixture
UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (mixture contains phosphoric acid)
Hazard Class	8
Packing Group	III

IATA UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (mixture contains phosphoric acid)
Hazard Class	8
Packing Group	III

IMDG , UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (mixture contains phosphoric acid)
Hazard Class	8
Packing Group	III

Marine Pollutant No

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
EINECS	Listed
AICS	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical

Substances ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA Title III:	Sections 313 –(Specific toxic chemical listings) 7664-38-2 Phosphoric acid Sections 355 –None of the ingredients is listed. Sections 302 –None of the ingredients is listed.
TSCA (Toxic Substance Control Act)	All ingredient are listed
Proposition 65 (California) Chemical know to cause cancer	None of the ingredients is listed
State Right to Know Regulations	New Jersey, Massachusetts, Pennsylvania:
EPA (Environmental Protections Agency)	None of the ingredients is listed
IARC (International Agency for Research Cancer)	None of the ingredients is listed
NIOSH Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed

CANADA WHIMIS

Canadian Domestic Substances List (DSL)	None of the ingredients is listed
Canadian Ingredient Disclosure List (limit 0.1%)	None of the ingredients is listed
Canadian ingredient Disclosure List (limit 1%)	Phosphoric acid 7664-38-2

Canadian Ingredient Disclosure List (limit 1%)

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada's Controlled Products Regulation.

16. OTHER INFORMATION

Part Number	Size	Warranty
AC10-PI	5- Gallon Pail	1 (one) Year Shelf Life Batch Code: Containers of this formula will be batch coded as follows: Lot # 111213 where "1" Number of Batch Produced "11" Month Batch is Produced "21" Day in the Month Batch is produced "3" is the last digit of the year product produced
AC10-Dr	55-Gallon Drum	
AC10-275T	275 Gallon Tote	
AC10-330T	330 Gallon Tote	

Prepared/Revised by: Aerogreen Solutions LLC, Regulatory Department
 This SDS has been revised in the following sections: ALL

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet