

ECLIPSE AURORA HB® GERMICIDAL DETERGENT & DEODORANT

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Eclipse Aurora HB® Germicidal Detergent and Deodorant Product Number: 605
 Product Type: Germicidal cleaner
 EPA Registration Number: 1839-95-41567

Manufacturer Address:

Amano Pioneer Eclipse Corporation
 P.O. Box 909
 1 Eclipse Road
 Sparta, NC 28675

Contact Information:

Telephone: 1-336-372-8080
 Email: msds@pioneer-eclipse.com
 Internet: www.pioneer-eclipse.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

OSHA status: Hazardous - Corrosive

Precautions: Danger. Corrosive to skin and eyes. Keep container closed when not in use.
 Keep out of reach of children.

Potential Health Effects:

Eye Contact: Causes eye burns. May cause permanent damage.

Skin Contact: Causes skin burns. May cause permanent damage.

Inhalation: May be harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Health: 3
 Flammability: 0
 Reactivity: 0

3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight %
n-alkyl dimethyl benzyl ammonium chloride	68391-01-5	2.25
n-alkyl dimethyl ethylbenzyl ammonium chloride	68956-79-6	2.25

4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes awhile removing contaminated clothing and shoes. Get medical attention immediately.

Inhalation: If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting. Seek medical advice immediately.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, CO₂, dry chemical, alcohol-type or universal type foams

Special Fire Fighting Procedures: Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing. Fire fighters

Hazardous Combustible Products: N/A

Unusual Fire and Explosion Hazards: Materials can splatter above 100° C / 212° F

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on appropriate personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery; use care to avoid falling.

Environmental Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

ECLIPSE AURORA HB® GERMICIDAL DETERGENT & DEODORANT

Containment and Clean-Up

- Small Spills:** Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.
- Large Spills:** Neutralize spill area. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Landfill or incinerate the contaminated solids and diking material in accordance with local state and federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility.
- Waste Disposal:** federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility.

7: HANDLING AND STORAGE

Do not contaminate water, food or feed by storage or disposal.

- Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.
- Pesticide Storage:** Keep product under locked storage, inaccessible to children. Open dumping is prohibited. Do not re-use empty container.
- Storage:** Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)
- Other information:** Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Limit Values:** None
- Engineering Controls:** Ensure adequate general ventilation.
- Personal Protective Equipment (PPE)**
- Eye/Face Protection:** Chemical splash goggles (ANSI Z87.1-1989 or approved equivalent)
- Skin Protection:** Rubber gloves recommended. If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.
- Respiratory Protection:** None required when permissible airborne concentrations are not exceeded. In an emergency, use approved positive pressure self-contained breathing device.

9: PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|---|
| Appearance: clear, purple liquid | Odor: fresh, clean |
| Odor Threshold: N/E | pH: 11.5 ± 0.5 |
| Freezing Point: 32 °F / 0 °C | Boiling Point: 212 °F / 100 °C |
| Flash Point: None | Evaporation Rate: 0.4 (butyl acetate = 1) |
| Viscosity: < 25 centipoise @ 68 °F (20 °C) | Upper/Lower Flammability limits: non-flammable |
| Vapor Pressure: less than water | Vapor Density: greater than air |
| Relative Density: 8.7 lb/gal @ 68 °F / 1.04 kg/L @ 20 °C | Solubility: 100% soluble in water |
| Partition Coefficient (n-octanol/water): N/E | Auto Ignition temperature: N/E |
| Decomposition Temperature: N/E | VOC Content: 85 - 87% |

10: STABILITY AND REACTIVITY

- Stability:** Stable under normal conditions.
- Hazardous reactions:** Adding water directly to the product may generate heat and cause product to splash. To avoid adverse reaction, always add product to water, do not add water to product.
- Conditions to avoid:** Improper order of dilution
- Incompatible materials:** Strong acids and oxidizing agents
- Hazardous decomposition products:** Carbon monoxide, carbon dioxide and nitrogen oxides

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

Ingredient	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Mouse(mg/kg)	LC ₅₀ Inhalation-Rat (mg/l)	Carcinogenicity	CA - Prop 65
n-alkyl dimethyl benzyl ammonium chloride	N/A	N/A	N/A	N/L	N/L
n-alkyl dimethyl ethylbenzyl ammonium chloride	N/A	N/A	N/A	N/L	N/L

ECLIPSE AURORA HB® GERMICIDAL DETERGENT & DEODORANT

LOCAL EFFECTS

Skin contact: Corrosive. Can cause skin burns.
Eye contact: Corrosive. Can cause eye burns.
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

12: ECOLOGICAL INFORMATION

Ecological testing has not been completed on the mixture.

Aquatic Toxicity: Not determined.
Ecotoxicity: Not determined.
Environmental Fate: Not determined.
Bioaccumulation: Not determined.

13: DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.
Pesticide waste is acutely hazardous. Improper disposal of excess pesticides, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use (according to label instructions), contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Triple rinse (or equivalent). Then offer for recycling or recondition or puncture and dispose of in a sanitary landfill or incineration or, if allowed by state and local authorities, burn. If burned, stay out of smoke.

Container Disposal:

14: TRANSPORT INFORMATION

Proper Shipping Name: Corrosive liquid, n.o.s. (Quaternary ammonium chloride) **Hazard Class:** 8
UN Number: UN1760 **Packing Group:** III

Package volumes <5 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

15: REGULATORY INFORMATION

U.S. Regulations/Reporting: Components not subject to U.S. Reporting (SARA 302/304, 313, CERCLA)
State Right to Know Status: Components not subject to State RTK Listing (MA, NJ, PA, RI)

16: OTHER INFORMATION

Abbreviations Used:

N/E - Not Established N/A - Not applicable
N/L - Not Listed

Revision History:

01/27/2012- addition of Limited Quantity statement to Section 14
04/01/2011- format change to ANSI Z400.1-2004

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.

This MSDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****