

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Aqua Guard
Product Number: C156-CS
CAS Number: Blend

HARRIS RESEARCH, INC.

Company Identification

Harris Research, Inc.
1530 North 1000 West
Logan, UT 84321 USA
1-435-755-0099 (For product information)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
WATER	94.0 - 98.0 %	7732-18-5
FLUOROACRYLATE CO-POLYMER EMULSION	1.0 - 5.0 %	Trade Secret
DIPROPYLENE GLYCOL MONOMETHYL ETHER	< 1.0 %	34590-94-8

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

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*****      EMERGENCY OVERVIEW      *****
*                                                                              *
*                                                                              *
*          CAUTION          *
*                                                                              *
*   May cause eye irritation.  *
*                                                                              *
*****

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HMIS Rating - Health: 1
Flammability: 0
Reactivity: 0



(section 3 continued)

NFPA Rating - Health: 1
Flammability: 0
Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYE:

Direct contact or exposure to vapors may cause irritation.

SKIN:

May cause irritation.

INHALATION:

Avoid breathing vapors or mists. Can cause respiratory tract irritation.

INGESTION:

Headache, nausea, vomiting, dizziness, gastrointestinal upset.

TARGET ORGAN:

Liver or kidney diseases.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

May cause some skin disorder.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT FIRST AID:

Wash affected area with soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

INHALATION FIRST AID:

If inhaled, remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. If swallowed, do NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary.



(section 4 continued)

NOTES TO PHYSICIAN:

This product contains low concentration of dipropylene glycol monomethyl ether which can cause CNS or minor liver or kidney effects, if large quantities are inhaled or absorbed through the skin.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: >100 C (> 212.0 F)
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: None
UEL: None

EXTINGUISHING MEDIA:

Use media suitable for the material that is burning.

FIRE FIGHTING INSTRUCTIONS:

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side.

MISCELLANEOUS:

This product is not combustible. If involved in a fire, however, it can release small quantities of toxic hydrogen fluoride and carbonyl fluoride fumes.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear safety goggles and gloves when appropriate. Spill area will be slippery.

INITIAL CONTAINMENT:

Absorb spills with inert material. Shovel up and place in a non-metal waste container for disposal.

LARGE SPILLS PROCEDURE:

Dike large spills with soil or sandbags to contain it and prevent its spread.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material. Floor may become slippery.



(section 6 continued)

MISCELLANEOUS:

Prevent from watering waterways.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with eyes, skin, and clothing.

HANDLING (PHYSICAL ASPECTS):

Keep container closed to avoid contamination. Avoid extreme temperatures.

STORAGE PRECAUTIONS:

Keep away from heat and sunlight.

MISCELLANEOUS:

If material freezes, gently thaw prior to use. Mild agitation may be required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Keep container tightly closed.

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses.

SKIN PROTECTION REQUIREMENTS:

For brief contact, normal work attire should be sufficient.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required.

EXPOSURE GUIDELINES:

Dipropylene glycol monomethyl ether

OSHA PEL: 100 ppm
ACGIH TWA: 100 ppm
OSHA STEL: 150 ppm



9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Milky white
ODOR: Glycol
BOILING POINT: 100 C
SOLUBILITY IN WATER ...: Dispersible
SPECIFIC GRAVITY: 1.08 (Water = 1)
PH: 5.5 - 6.0

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

INCOMPATIBILITY WITH OTHER MATERIALS:

Oxidizing agents, alkalis.

DECOMPOSITION:

Hydrogen fluoride and carbonyl fluoride, in case of fire or extreme heat.

CONDITIONS TO AVOID:

Avoid contact with heat.

11. TOXICOLOGICAL INFORMATION

Dipropylene glycol monomethyl ether

Test Code: Oral LD50

Species: Rat

Results: 5.4 ml/kg

Test Code: Dermal LD50

Species: Rabbit

Results: >20 ml/kg

12. ECOLOGICAL INFORMATION

Dipropylene glycol monomethyl ether

Test Code: Acute LC50

Species: Fathead minnow

Results: > 10000 mg/L

Test Code: Acute LC50

Species: Water flea

Results: 1919 mg/L



(section 12 continued)

Test Code: Acute LC50
Species: Brown shrimp
Results: > 1000 mg/L

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Aqua Guard
D.O.T. SHIPPING NAME ...: Not regulated

MISCELLANEOUS:

IATA Shipping Classification: Not Regulated.

IMO/IMDG Shipping Classification: Not Regulated.

15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

01 = SARA TITLE III SECTION 302	02 = SARA Title III Section 313
03 = RCRA HAZARDOUS WASTE CODES	04 = CERCLA Hazardous Substances
05 = CLEAN AIR ACT	06 = California Prop. 65

EEC Symbols and Indications of Danger:

None

R-Phrases:

R36/38 - Irritating to eyes and skin.

WHMIS Hazard Symbols:

None

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).



16. OTHER INFORMATION

PREPARED BY: Edward Durrant
APPROVED BY: Dale Jensen
TITLE: Product Development Manager
APPROVAL DATE: February 11, 2009
SUPERCEDES DATE ...: March 21, 2006
RTN NUMBER: 00000045 (Official Copy)

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