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SECTION I: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product name: Advantage Plus HF

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Wetting agent

1.3 Details of the supplier of the safety data sheet

Company: Aquatrols Corporation

1273 Imperial Way Paulsboro, NJ 08066

Website: <u>www.aquatrols.com</u>

Phone number: (856) 537-6003

Email: jyichye@aquatrols.com

1.4 Emergency telephone

Phone number: CHEMTEL - (800) 255-3924

SECTION II: Hazards Identification

2.1 Classification of the substance or mixture

Product description: Mixture

Not classified

2.2 GHS label elements

Not a hazardous product according to the Globally Harmonized System (GHS)

2.3 Other hazards which do not result in classification



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Slightly irritating to eyes and skin.

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Mixture

3.2 Hazardous ingredients

No ingredients are hazardous

3.3 Non-hazardous ingredients and impurities

Chemical Name	CAS No.	Concentration
Neutral blend of polyhydroxyethyl	9003-11-6	96.5%
alkoxy alkylene oxides		
Humic acids	No single CAS	2.5%
	number available	
Fulvic acids	No single CAS	1.0%
	number available	

SECTION IV: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Show this SDS to the doctor in attendance.

First responder needs to protect himself.

Place affected apparel in a sealed bag for subsequent

decontamination.

Inhalation: Negligible or unlikely exposure pathway.

If inhaled, remove to fresh air. Consult a physician if necessary.

Skin contact: In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing before re-use.



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Eye contact: Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

Ingestion: Do not induce vomiting without medical advice. If victim is

conscious, rinse with water, keep at rest, do not give anything to eat or drink, and do not leave victim unattended. Vomiting

may occur spontaneously. Seed medical advice.

4.2 Most important symptoms and effects, both acute and delayed.

Symptoms after inhalation: Inhalation of product may aggravate

existing chronic respiratory problems such as asthma, emphysema or

bronchitis.

Symptoms after skin contact: Skin contact may aggravate existing skin

disease.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: All treatments should be based on

observed signs and symptoms of distress to the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. There is no specific antidote available.

SECTION V: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, foam, water spray.

Unsuitable extinguishing media: High volume water jet (frothing possible)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Under fire conditions, will burn.

Hazardous decomposition products: Carbon oxides.

5.3 Advice for firefighters



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Special protective equipment: Firefighters should wear approved self-

contained breathing apparatus and full

protective clothing.

Further information: Standard procedure for chemical fires. Collect

contaminated fire extinguishing water

separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

SECTION VI: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Wear suitable protective equipment. For further information, see Section VIII "Exposure Controls/Personal Protection".

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Spills should be reported to local agencies.

6.3 Methods and materials for containment and cleanup

Methods of containment: Stop leak if safe to do so.

Dam up with sand or inert earth (do not use combustible

materials).

Recovery: Soak up with inert absorbent materials.

Shovel or sweep up.

Keep in suitable, closed container for disposal. Never return spills to original containers for re-use.

Decontamination/cleaning: Clean contaminated surface thoroughly.

Wash non-recoverable remainder with large amounts of

water.

Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.

Disposal: Dispose of in accordance with local regulations.



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6.4 Reference to other sections

See Section VII for Handling and Storage.

SECTION VII: HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance/mixture.

Technical measures: Ethylene oxide may collect in container headspace.

Provide adequate ventilation.

Advice on safe handling and usage: Avoid inhalation of vapor or mist.

Avoid contact with skin and eyes.

Hygiene measures: Personal hygiene is an important workplace practice

exposure control measure and the following general measures should be taken when working with or

handling this material:

1) Do not store, use, and/or consume foods,

beverages, tobacco products, or cosmetics in areas

where this material is stored.

2) Wash hands and face carefully before eating,

drinking, using tobacco, applying cosmetics, or using

the toilet.

3) Wash exposed skin promptly to remove accidental

splashes or contact with material.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Recommended: Keep container tightly closed in a dry, well-ventilated

place.

To be avoided: Keep away from open flames, hot surfaces and sources

of ignition.

Keep away from incompatible materials

Storage stability

Storage temperature: No data available.



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7.3 Specific end use(s)

See Section I

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

General comments

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Exposure limits: Not established

Protective measures: Ensure that eyewash stations and safety showers are

close to workstation. Emergency equipment immediately accessible, with instructions for use.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present,

duration of use, and the potential hazards, and/or risks

that may occur during use.

Respiratory protection: When respirators are required, use approved

equipment based on actual or potential airborne

concentrations and in accordance with the appropriate

regulatory standards and/or industrial

recommendations.

Hand protection: Gloves. Please observe the instructions regarding

permeability and breakthrough time which are provided

by the supplier of the gloves. Also take into

consideration the specific local conditions under which

the product is used, such as the danger of cuts,

abrasion, and the contact time.



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Eye protection: Eye and face protection will vary dependent upon work,

environmental conditions and material handling

practices. Appropriate approved equipment should be

selected for the particular use intended for this

material. Eye contact should be prevented through the

use of safety glass with side-shields.

Body protection: Footwear protecting against chemicals; impervious

clothing.

Hygiene measures: Personal hygiene is an important workplace practice

exposure control measure and the following general measures should be taken when working with or

handling this material:

 Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas

where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using

the toilet.

3) Wash exposed skin promptly to remove accidental

splashes or contact with material.

SECTION IX: CHEMICAL AND PHYSICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid
Form: Pellet
Color: Brown
Odor: Mild

Odor threshold: No data available

pH: 8

Freezing point: <68°F (20°C)

Flashpoint: 237°F (114°C) Pensky-Martens Closed Cup

Evaporation rate: Not determined
Flammability: Not determined
Upper explosive limit: No data available
Lower explosive limit: No data available
Vapor pressure: Not applicable



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Relative density: Not determined **Solubility:** Soluble in water

Partition n-octanol/water: No data available

Autoignition temperature: Product is not self-igniting

Thermal decomposition: No data available **Viscosity:** No data available

Explosive properties: Product does not present an explosion hazard

Oxidizing properties: No data available

9.2 Other information

Non volatiles by weight: 100%

SECTION X: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Keep away from heat and sources of ignition. Keep away from flames and sparks.

10.5 Incompatible materials

Strong bases. Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides.

SECTION XI: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity: No data available
Acute inhalation toxicity: No data available
Acute dermal toxicity: No data available



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Acute toxicity (other routes of administration: No data available

Skin corrosion/irritation

Skin irritation: No data available

Serious eye damage/eye irritation

Eye irritation: No data available

Respiratory or skin sensitization

Sensitization: No data available

Mutagenicity

Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available

Carcinogenicity

Carcinogenicity: No data available

Toxicity for reproduction and development

Toxicity to reproduction/fertility: No data available Developmental toxicity/teratogenicity: No data available

SECTION XII: ECOLOGICAL INFORMATION

12.1 Toxicity

According to the data on the components, this product

does not have any known adverse effects on the aquatic organisms tested according to the classification criteria

for mixtures.

Chronic aquatic toxicity: According to the data on the components, this product

does not have any known adverse effects on the aquatic organisms tested according to the classification criteria

for mixtures.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil



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No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION XIII: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Advice on disposal: Chemical additions, processing or otherwise altering this material may

make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult local

regulations regarding proper disposal of this material.

Contaminated containers: Rinse with appropriate solvent. Dispose of contents/container

in accordance with local regulations.

SECTION XIV: TRANSPORT INFORMATION

In accordance with the provisions of ADR/RID/ADNR/IMDG/ICAO/IATA

14.1 UN Number

Not classified as dangerous

14.2 Shipping name UN Model

Not applicable

14.3 Transport hazard class

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Other information: No additional information available

14.6 Special precautions for use



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No additional information available

14.6.1 Ground transport

No additional information available

14.6.2 Sea transport

No additional information available.

14.6.3 Air transport

No additional information available

14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code

Not applicable.

SECTION XV: REGULATORY INFORMATION

15.1 Notification status

United States TSCA Inventory: YES (positive listing)

On TSCA inventory

Canadian Domestic Substances List (DSL): YES (positive listing)

All components of this product are on the

Canadian DSL

Australia Inventory of Chemical Substances (AICS): YES (positive listing)

On the inventory, or in compliance with

the inventory

Japan CSCL – Inventory of Existing and New Chemical Substances: YES (positive listing)

On the inventory, or in compliance with the

inventory

Korea Korean Existing Chemicals Inventory (KECI): YES (positive listing)

On the inventory, or in compliance with

the inventory

China Inventory of Existing Chemical Substances in China (IECSC): YES (positive listing)

On the inventory, or in compliance with the

inventory



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15.2 Federal Regulations

SARA 311/312 Hazards

Fire Hazard: No
Reactivity Hazard: No
Sudden Release of Pressure Hazard: No
Acute Health Hazard: No
Chronic Health Hazard: No

SARA 313 This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

SARA 302 No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

EPCRA – Emergency Planning and Community Right-to-Know

No reportable quantities.

15.3 State regulations

California Proposition 65: WARNING! This product contains chemicals known in

the State of California to cause cancer.

1,4-dioxane Ethylene oxide Propylene oxide

WARNING! This product contains chemicals known in the State of California to cause birth defects or other

reproductive harm. Ethylene oxide.

No Significant Risk Levels (NSRLs) have been established

for the following: 1,4-dioxane

Value: 30 micrograms per day

Ethylene oxide

Value: 2 micrograms per day

SECTION XVI: OTHER INFORMATION



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More information

NFPA (National Fire Protection Association) Classification

Health: 0 minimal Flammability: 1 slight Instability or Reactivity: 0 minimal

HMIS (Hazardous Materials Identification System) Classification

Health: 0 minimal Flammability: 1 slight Reactivity: 0 minimal

Abbreviations

ADR: European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50% EC50: Effective Dose 50%

CLP: Classification, Labelling and Packaging

CAS: Chemical Abstract Service

RID: Regulations concerning the International Carriage of Dangerous

Goods by Rail

IATA-DGR: International Air Transport Association Dangerous Goods

Regulations

GHS: Globally Harmonized System (GHS) of Labelling Chemical

Products

REACH: Registration, Evaluation, Authorization and Restriction of

Chemical Products

Version: 1.0

Previous version: Not applicable Reason for revision: New SDS

The information in this SDS, to our knowledge, is accurate at the data of publication. This information is intended as a guide for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a guarantee or indication of quality. The information relates only to the specific material and may not be valid in combination with other products or used in any process, unless specified in the text.