

Material Safety Data Sheet

Date Prepared: July 24, 2015

Supersedes Date:

May 22, 2013

## 1. PRODUCT AND COMPANY IDENTIFICATION

AQUATROLS CORPORATION OF AMERICA

1273 IMPERIAL WAY

PAULSBORO, NJ 08066 USA

**Emergency Phone Numbers:**

For emergencies involving a spill, leak, fire, exposure or accident, contact CHEMTREC (800-424-9300 within the United States or 1-703-527-3887 for international collect calls).

**For Product Information:** 1-800-257-7797

**Chemical Name or Synonym:** Sprayable Acid

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

GHS05 Corrosion

H314 Causes severe skin burns and eye damage

GHS07

H302 Harmful if swallowed

H319 Causes serious eye irritation

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

Corrosive - Causes burns

Harmful if swallowed

**Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of international guidelines

**Classification system:**

The classification was made according to the latest editions of international substances list, and expanded upon from company and literature data.

**Label elements**

**GHS label elements:**

The product is classified and labeled according to the Globally Harmonized System (GHS)

**Hazard pictograms:**

GHS05, GHS07

**Signal word:**

Danger

**Hazard-determining components of labeling:**

Mineral Acid Salt of Organic Amide

**Hazard statements:**

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye irritation

**Precautionary statements:**

Do not breathe dust/fume/gas/mist/vapors/spray

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**WHMIS Symbols:**

D2B – Toxic material causing other toxic effects

E – Corrosive material

**Classification system:**

**NFPA ratings** Health = 3 Fire = 1 Reactivity = 0

**HMIS ratings** Health = 3 Fire = 1 Reactivity = 0

**Other hazards:**

Results of PBT and vPvB assessment:

PBT: Not applicable vPvB: Not applicable

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical characterization: Mixture

Description: Mixture of the substances listed below with non-hazardous additions

|   | <u>CAS Reg No.</u> | <u>WGT. %</u> |
|---|--------------------|---------------|
| <b><u>Dangerous components:</u></b>                     |                    |               |
| Mineral Acid Salt of Organic Amide                      | Not listed         | 50-100%       |
| Acute Tox. H301; Skin Corr. 1C H314; Eye Irrit. 2A H319 |                    |               |

**4. FIRST AID MEASURES**

|  |   |
|--|---|
| <b>General information:</b>  | Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.                        |
| <b>Eyes:</b>   | Rinse opened eye for several minutes under running water. Then consult a doctor. Call a doctor immediately. Remove contact lenses, if present. Hold eyelids apart and flush with water for at least 15 minutes. |
| <b>Skin:</b>   | Immediately wash with water and soap and rinse thoroughly.  |
| <b>Ingestion:</b>  | Immediately call a doctor. Drink copious amounts of water and provide fresh air. Immediately call a doctor.   |
| <b>Inhalation:</b>   | In case of unconsciousness place patient stably in side position for transportation.  |
| <b>Information for Doctor:</b>   | Most important symptoms and effects, both acute and delayed: No further relevant information available. Treat symptomatically and supportively.   |
| <b>Indication of any immediate medical attention and special treatment needed:</b> | Treat symptomatically and supportively.   |

**5. FIRE FIGHTING MEASURES**

|   |   |
|---|---|
| <b>Suitable extinguishing agents:</b>                         | CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| <b>Special hazards arising from the substance or mixture:</b> | No further relevant information available   |
| <b>Protective equipment:</b>                                  | Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing          |

**6. ACCIDENTAL RELEASE MEASURES**

|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | Wear protective equipment. Keep unprotected persons away.  |
| <b>Environmental precautions:</b>   | Do not allow to enter sewers/surface or ground water.  |
| <b>Methods and material for containment and cleaning up:</b>                | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. |
| <b>Reference to other sections:</b>   | See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for disposal information.   |

**7. HANDLING AND STORAGE**

|                          |   |
|--------------------------|---|
| <b>Handling</b>          | <b>Precautions for safe handling:</b> Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. |
| <b>Information about</b> | No special measures required.   |

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protection against  
explosions and fires:

Storage:

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s):** No further relevant information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis

**Exposure controls:** Personal protective equipment

**General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Breathing equipment:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:** The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests, no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the materials, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |  |                                       |
|---------------------------------------|--|---------------------------------------|
| <b>Physical State:</b>                | Liquid                                       |                                       |
| <b>Odor:</b>                          | Mild Characteristic                          | <b>Odor threshold:</b> Not determined |
| <b>Color:</b>                         | Amber  |                                       |
| <b>pH value at 20°C (68°F):</b>       | <1   |                                       |
| <b>Melting point/Melting range:</b>   | Not determined                               |                                       |
| <b>Boiling point/Boiling range:</b>   | 100°C (212°F)                                |                                       |
| <b>Flash point:</b>                   | >93°C (>199°F)                               |                                       |
| <b>Decomposition temperature:</b>     | Not determined                               |                                       |
| <b>Auto igniting:</b>                 | Product is not self igniting                 |                                       |
| <b>Danger of explosion:</b>           | Product does not present an explosion hazard |                                       |
| <b>Explosion limits:</b>              | Lower: not determined                        | Upper: Not determined                 |
| <b>Vapor pressure at 20°C (68°F):</b> | 23 hPa (17 mm Hg)                            |                                       |
| <b>Density at 20°C (68°F):</b>        | 1.2 g/cm <sup>3</sup> (10.014 lbs/gal)       |                                       |
| <b>Relative density:</b>              | Not determined                               |                                       |
| <b>Vapor density:</b>                 | Not determined                               |                                       |
| <b>Evaporation Rate:</b>              | Not determined                               |                                       |

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Solubility in/Miscibility with Water: Fully miscible  
Segregation coefficient (n-octanol/water): Not determined  
Viscosity: Dynamic: Not determined Kinematic: Not determined VOC Content: 0.1%  
Other information: No further relevant information available

**10. STABILITY AND REACTIVITY****Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions:** No dangerous reactions known**Conditions to avoid:** No further relevant information available**Incompatible materials:** No further relevant information available**Hazardous decomposition products:** No dangerous decomposition products known**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Primary irritant effect on the skin:** Caustic effect on skin and mucous membranes**On the Eye:** Strong caustic effect**Sensitization:** No sensitizing effects known**Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, corrosive**Swallowing:** Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.**Carcinogenic categories:** IARC (International Agency for Research on Cancer)  
111-76-2 2-butoxyethanol**12. ECOLOGICAL INFORMATION****Aquatic toxicity:** No further relevant information available**Persistence and degradability:** No further relevant information available**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available**Mobility in soil:** No further relevant information available**Additional ecological information:****General Notes:** Water hazard class I (self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.**Results of PBT and vPvB assessment** PBT: Not applicable vPvB: Not applicable**Other adverse effects:** No further relevant information available.**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach waterways or storm sewers. Disposal must be made in accordance with local, state and federal regulations.

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Uncleaned packagings

Recommendation:

Disposal must be made in accordance with local, state and federal regulations

Recommended cleansing agent:

Water, if necessary with cleansing agents

## 14. TRANSPORTATION INFORMATION

UN-Number

 DOT Void  
 TDG, IMDG, IATA 3265

UN proper shipping name

 DOT Void  
 TDG 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Urea Hydrochloride)  
 IMDG, IATA CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Urea Hydrochloride)

Transport Hazard class(es)

 DOT Void  
 Class Corrosive  
 TDG, IMDG, ATA Corrosive  
 TDG class 8 Corrosive substances  
 Label 8

Packing group

 DOT Void  
 TDG, IMDG, IATA III

Environmental hazards

Marine pollutant No

Special precautions for user Warning: Corrosive substances

Danger code (Kemler) 80

EMS number F-A, S-B

Segregation groups Acids

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Transport/Additional information

DOT

Remarks Corrosive to aluminum, excepted per 49 CFR 173.154(d)(1)

UN "Model Regulation": UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara:

|   |   |
|---|---|
| Section 355 (extremely hazardous substances):   | No ingredient above the minimum is listed                                 |
| Section 313 (Specific toxic chemical listings): | No ingredient above the minimum is listed                                 |
| TSCA (Toxic Substances Control Act):            | All component of this material are on the US TSCA Inventory or are exempt |

Carcinogen categories

|  |  |
|--|--|
| EPA (Environmental Protection Agency)                            | No ingredient above the minimum is listed  |
| IARC (International Agency for Research on Cancer)               | No ingredient above the minimum is listed  |
| NTP (National Toxicology Program)                                | No ingredient above the minimum is listed  |
| TLV (Threshold Limit Value established by ACGIH)                 | No ingredient above the minimum is listed  |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | No ingredient above the minimum is listed  |
| OSHA-Ca (Occupational Safety & Health Administration)            | No ingredient above the minimums is listed |

 GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).  
 Hazard pictograms: GHS05, GHS07

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Signal word: Danger

**Hazard-determining components of labeling:**

Mineral Acid Salt of Organic Amide

**Hazard statements:**

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye irritation.

**Precautionary statements:**

Do not breathe dust/fume/gas/mist/vapors/spray. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:**

A chemical Safety Assessment had not been carried out.

CPR: This product has been classified according to the hazard criteria of the CPR and the MSDS contains information available at the time of printing (June 24, 2013).

**16. OTHER INFORMATION****Reason for Issue:** Not applicable**Information Contact:** Aquatrols Corporation of America – 1-800-257-7797 / 1-856-537-6003**Revision Summary:** Section 9 information revised. Section 14 TDG information revised. Section 15, CPR statement added. Section 16, Manufacturer Disclaimer revised. This MSDS replaces MSDS dated May 24, 2013.**HMIS Rating**

|                             |   |
|-----------------------------|---|
| <b>HEALTH:</b>              | 2 |
| <b>FLAMMABILITY:</b>        | 1 |
| <b>PHYSICAL HAZARD:</b>     | 1 |
| <b>PERSONAL PROTECTION:</b> | H |

**NFPA CODES**

|                      |   |
|----------------------|---|
| <b>HEALTH:</b>       | 2 |
| <b>FLAMMABILITY:</b> | 1 |
| <b>INSTABILITY:</b>  | 0 |
|                      |   |

**Manufacturer Disclaimer:** The information provided on the MSDS 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 related 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. While we believe the information contained herein is reliable, it is being provided on an "as is" basis, without representation or warranty, express or implied, regarding accuracy, adequacy, completeness, reliability of usefulness for any purpose. Aquatrols shall have no liability to any person relating to or resulting from the use of the information provided herein or any errors or omissions therein.

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