

MATERIAL SAFETY DATA SHEET

GAA

Latest Revision Date...02/15/07

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SECTION 1

MANUFACTURER INFORMATION

HYDRO-ZONE, INC.
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FOR CHEMICAL EMERGENCY
CALL INFOTRAC @ 1-800-535-5053
24 HRS/DAY, 7 DAYS/WEEK

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... HZ GAA
TRADE NAME OR CHEMICAL NAME... GAA
SYNONYMS..... NA
CHEMICAL FAMILY..... Organic Acid
NFPA - HEALTH HAZARD..... 3
FIRE HAZARD..... 2
REACTIVITY HAZARD..... 0
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Acetic Acid	64-19-7	>98	10 ppm	10 ppm	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Acetic Acid, Glacial
D.O.T. HAZARD CLASS..... Corrosive Material Class 8
D.O.T. LABELS REQUIRED..... Corrosive
UN/NA I.D. NUMBER..... UN 2789
PACKAGING GROUP..... II
NON-BULK SHIPPING NAME..... Acetic Acid, Glacial, 8, UN 2789, PG II
BULK SHIPPING NAME..... Same.

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 244°F (118°C) / 61°F (16°C)
pH..... 1.1
VAPOR PRESSURE mm Hg @20° C..... 11
VAPOR DENSITY (Air = 1)..... 2.07
PERCENT VOLATILE BY WEIGHT (%)..... 100
SPECIFIC GRAVITY @20°C..... 1.05
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) 0.97
APPEARANCE AND ODOR..... Clear colorless liquid with strong vinegar -like odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... 103°F (39°C) PMCC
AUTOIGNITION TEMPERATURE..... 800°F (427°C)
FLAMMABILITY LIMITS IN AIR (% V)... Lower: >5.4 Upper: <19.0

SECTION 6FIRE AND EXPLOSION HAZARD DATA

CONT'D

EXTINGUISHING MEDIA..... Water spray, dry chemical, alcohol foam or carbon dioxide.
 SPECIAL FIRE FIGHTING PROCEDURES... Wear self-contained breathing apparatus and chemical protective clothing.
 UNUSUAL FIRE & EXPLOSION HAZARDS... Material is strongly acidic. Beware of exploding drums in hot fires. Cool containers to prevent rupture from pressure build-up.

SECTION 7REACTIVITY DATA

PRODUCT STABILITY..... Stable
 Conditions to Avoid..... Can be dangerously reactive with strong acids and oxidizing agents.
 CHEMICAL INCOMPATIBILITY..... Oxidizers, reducing agents and alkali.
 HAZARDOUS DECOMPOSITION PRODUCTS... Irritating and toxic fumes may be emitted upon decomposition. Combustion may produce carbon monoxide and carbon dioxide.
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8HEALTH HAZARD DATA

SKIN CONTACT... Corrosive to the skin. Contact may result in irritation, itching, scaling and burns.
 EYE CONTACT... Vapor can cause irritation. Contact with liquid will cause severe irritation and chemical burns.
 INHALATION..... Causes severe respiratory tract irritation, chemical pneumonitis and pulmonary edema.
 INGESTION..... Corrosive. Causes severe irritation and burns of the mouth, throat and esophagus. Ingestion may cause gastrointestinal irritation and dianthea.

SECTION 9EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water for at least 15 minutes. Get medical attention promptly. Discard contaminated clothing and footwear.
 EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get immediate medical attention. Speed in treatment is essential.
 INGESTION...If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Treat for acid ingestion. Never give anything by mouth to an unconscious person.
 INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Eliminate ignition sources. Approach from upwind. Absorb onto inert material. Place in suitable container for disposal.
 WASTE DISPOSAL METHOD..... Corrosive. Dispose of in accordance with all federal, state and local regulations.
 HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Number: D002
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Triple rinse, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
 VENTILATION.....Local and/or mechanical exhaust to maintain exposure below P.E.L.
 PROTECTIVE CLOTHING.....Neoprene gloves, full chemical suit, boots - as necessary to prevent skin contact.
 EYE PROTECTION.....Chemical goggles and/or full face shield.
 OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.