


SECTION 1 IDENTIFICATION	
<i>Company Name</i>	Chemurgic Agricultural Chemicals, Inc
<i>Address</i>	P.O. Box 2106
<i>City, State, Zipcode</i>	Turlock, CA 95381
<i>Phone Numbers</i>	1-209-634-2951/ 1-209-667-1860 (fax)
<i>Website</i>	www.Chemurgic.net
<i>Product Identity</i>	Aqua Force
<i>Reference/Item Number</i>	
<i>Intended Use</i>	See technical data sheet.
<i>Application Method</i>	See technical data sheet.

24 HOUR EMERGENCY NUMBER/INFOTRAC (USA)
1-800-535-5053

Poison Control Center (USA)
1-800-222-1212

SECTION 2 HAZARD(S) IDENTIFICATION	
<i>Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:</i>	
[COMBUSTIBLE LIQUID]:	
<i>H227:</i>	Combustible Liquid
[ACUTE TOX. 4]:	
<i>H302:</i>	Harmful if swallowed.
<i>H312:</i>	Harmful in contact with skin.
<i>H332:</i>	Harmful if inhaled.
[SKIN IRRIT. 2]:	
<i>H315:</i>	Causes skin irritation.
[EYE IRRITANT 2]:	
<i>H319:</i>	Causes serious eye irritation.
[PREVENTION]:	
<i>P210:</i>	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
<i>P261:</i>	Avoid breathing dust/fume/gas/mist/vapors/spray.
<i>P264:</i>	Wash thoroughly after handling.
<i>P270:</i>	Do not eat, drink or smoke when using this product.
<i>P271:</i>	Use only outdoors or in a well-ventilated area.
<i>P280:</i>	Wear protective gloves/eye/face protection.
[RESPONSE]:	
<i>P301+312:</i>	If swallowed: Call a poison center or doctor/physician if you feel unwell.
<i>P302+352:</i>	If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
<i>P304+340:</i>	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<i>P305+351+338:</i>	If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
<i>P337+313:</i>	If eye irritation persists: Get medical advice/attention.
<i>P370+376:</i>	In case of fire: Stop leak if safe to do so.
[STORAGE]:	
<i>P430+235:</i>	Store in a well-ventilated place. Keep cool
<i>P404:</i>	Store in a closed container.
[DISPOSAL]:	
<i>P501:</i>	Dispose of contents/container in accordance with local/national regulations.

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)



WARNING

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS**

This product is labeled with the following GHS classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and the ingredients and mixture percentages are being withheld as confidential business information.

Ingredient/Chemical Designations	Weight %	CAS Number	GHS Classification	Notes
Proprietary blend of nonionic surfactants and 2-butoxyethanol	100	Proprietary	Combustible Liquid; H227 / Acute Tox 4; H332, H312, H302 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315	[1] [2]
[1] Substance classified with a health or environmental hazard.				
[2] Substance with a workplace exposure limit.				
[3] PBT-substance or vPvB-substance.				
H227: Combustible Liquid.				
H302: Harmful if swallowed.				
H312: Harmful in contact with skin.				
H332: Harmful if inhaled.				
H315: Causes skin irritation.				
H319: Causes serious eye irritation.				

SECTION 4**FIRST AID MEASURES****[DESCRIPTIONS]:**

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes:	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion:	If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

[MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED]:

Overview:	No data available. See Section 2 for further details.
Eyes:	Causes serious eye irritation.
Skin:	Harmful in contact with skin. Causes skin irritation.
Ingestion:	Harmful if swallowed.

SECTION 5**FIRE FIGHTING MEASURES**

Extinguishing Media:	Recommended extinguishing media: alcohol resistant foam, CO ₂ powder, water spray. Do not use water jet.
Special Hazards:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Can be dangerous when exposed to extreme heat and flame. Under combustion this product may form explosive peroxides of unknown stability.
Advice For Firefighters:	Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear full turnout gear and positive pressure self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel.
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SECTION 6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures:	Remove sources of ignitions, do not turn lights, or unprotected electrical equipment, on or off. In case of a major spill, or spillage in a confined space, evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit (LEL) before re-entering.
Environmental Precautions:	Do not allow spills to enter drains or water courses.
Methods and Material For Containment and Cleaning Up:	Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials (e.g. sand/earth/vermiculite). Place in closed containers outside buildings and dispose of according to the Waste Regulations (see Section 13.) Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or water courses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams, or lakes, the Environmental Protection Agency should also be informed.

SECTION 7**HANDLING AND STORAGE**

Precautions For Safe Handling:	Handle containers carefully to prevent damage and spillage. See Section 2 for further details [PREVENTION].
Conditions For Safe Storage:	Handle containers carefully to prevent damage and spillage. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Wear protective equipment. Personnel handling this material should be well trained in the use of personal protective equipment, safe handling methods, potential hazards and first aid requirements. AVOID contact with skin or eyes. Ensure that an eyewash station and safety shower is near place of use. Do not expose to extreme temperature/ flame or other ignition sources. Keep Cool. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated. See Section 2 for further details [STORAGE].
Incompatible Materials:	Aluminum, alkalis, salts of strong bases, strong acids, strong oxidizers. See Section 2 for further details [STORAGE].
Specific End Use(s):	No data available.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Carcinogen Data: This product contains no Ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP, or IARC in percentages greater than 0.1%.

Exposure Data: Ingredients with established limits for exposure are listed below:

CAS No.	Ingestion	Source	Value
0000111-76-2	2-Butoxyethanol	OSHA	TWA 50 ppm (240mg/m3) [skin]
		ACGIH	TWA 20 ppm (revised 2003)
		NIOSH	TWA 5 ppm (24mg/m3) [skin]

[EXPOSURE CONTROLS]:

Respiratory: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes: Wear safety eyewear (e.g. safety spectacles/goggles/visors) to protect against the splash of liquids.

Skin: Overalls, which cover the body, arms, and legs, should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates, and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

Other Work Practices: No data available. See Section 2 for further details [PREVENTION].

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid **Upper Flammability Limits:** Upper Explosive Limit: Not measured

Odor: Alcohol **Lower Flammability Limits:** Lower Explosive Limit: Not measured

Odor Threshold: Not measured **Vapor Pressure (Pa):** Not measured

pH: 5.0-7.0 **Vapor Density:** Heavier than air

Melting/Freezing Points (°C): Not measured **Solubility in Water:** Soluble

Initial Boiling Point/Range (°C): No Established Limit (C) / No Established Limit (F) **Partition Co-efficient n-octanol/water (Log Kow):** Not measured

Flash Point: >66°C / >150°F Tagged Closed Cup (TCC) **Auto-Ignition Temperature (°C):** Not measured

Evaporation Rate (Ether=1): Not measured **Decomposition Temperature:** Not measured

Flammability (Solid, Gas): Not applicable **Viscosity (cSt):** Not measured

Specific Gravity @ 20°C: 1.01 **VOC %:** Not measured

Other Information: No other relevant information. **Density, g/ml @ 25°C:** 1.07-1.09

SECTION 10**STABILITY AND REACTIVITY**

Reactivity: No data available.

Chemical Stability: Stable under normal handling conditions.

Hazardous Reactions: Thermal decomposition in the presence of air may produce aldehydes, ketones, organic acids and carbon oxides.

Conditions To Avoid: Oxidizing agents. Extreme heat, open flame, sparks, and sources of ignition. Incompatible materials.

Incompatible Materials: Aluminum, strong acids, salts of strong bases, alkalis, strong oxidizers.

Hazardous Decomposition Prod.: Thermal decomposition in the presence of air may produce aldehydes, ketones, organic acids and carbon oxides.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity:	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L4hr
	Proprietary blend	5,001 (no data available)	2,001 (no data available) 5	No data available

Category 4: Item: Acute Toxicity (mouth) / Hazard: Harmful if swallowed.

Category 3: Item: Acute Toxicity (skin) / Hazard: Toxic in contact with skin.

Category 4: Item: Acute Toxicity (inhalation) / Hazard: Harmful if inhaled.

Category 2: Item: Skin Corrosion/Irritation / Hazard: Causes skin irritation.

Category 2: Item: Eye Damage/Irritation / Hazard: Causes serious eye irritation.

Category --: Item: Sensitization (respiratory) / Hazard: Not applicable.

Category --: Item: Sensitization (skin) / Hazard: May cause an allergic skin reaction.

Category --: Item: Germ Toxicity / Hazard: Not applicable.

Category --: Item: Carcinogenicity / Hazard: Not applicable.

Category --: Item: Reproductive Toxicity / Hazard: Not applicable.

Category --: Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: Not applicable.

Category --: Item: Specific Target Organ Systemic Toxicity (repeated exposure) / Hazard: Not applicable.

Category --: Item: Aspiration Hazard / Hazard: Not applicable.

SECTION 12**ECOLOGICAL INFORMATION**

Toxicity: No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity: This product is not expected to be toxic to the aquatic environment.

Persistence and Degradability: There is no data available on the preparation itself.

Bioaccumulative Potential: Not measured.

Mobility in Soil: No data available.

Results of PBT and vPvB Assess: This product contains no PBT/vPvB chemicals.

Other Adverse Effects: No data available.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste Treatment Methods: Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

SECTION 14 TRANSPORT INFORMATION**UN Number:** UN 1993**UN Proper Shipping Name:** Combustible Liquid N.O.S. (contains: 2-butoxy ethanol)**Transport Hazard Class(es):** **DOT (Domestic Surface Transportation):****IMO/IMDG (Ocean Transportation) / IATA (Air):**

DOT Proper Shipping: See "UN Proper Shipping Name above.

IMDG Proper Shipping Name: See "UN Proper Shipping Name above.

DOT Hazard Class: 3

IMDG Hazard Class: 3

DOT Label: Combustible Liquid Class 3

Sub Class: Not applicable

UN/NA Number: NA 1993

IMDG Packing Group: III

DOT Packing Group: III CERCLA/DOT RQ: NA/NA

Special Precautions For User: Not applicable**Transport:** Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable**Environmental Hazards IMDG:** Marine Pollutant: No**Packing Group:** III**SECTION 15 REGULATORY INFORMATION****Regulatory Overview:** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.**WHMIS Classification:** B3 D2B**US EPA Tier II Hazards:** Fire: Yes / Sudden Release of Pressure: No / Reactive: No / Immediate (acute): Yes / Delayed (chronic): No**EPCRA 311/312:** Chemicals and RQs (>0.1%): No product ingredients listed**EPCRA 302:** Extremely Hazardous (>0.1%): No product ingredients listed**EPCRA 313:** Toxic Chemicals (>0.1%): No product ingredients listed**Proposition 65:** Carcinogens (>0.0%): 1-4 Dioxane / Oxirane**Proposition 65:** Developmental Toxins (>0.0%): No product ingredients listed**Proposition 65:** Female Repro Toxins (>0.0%): Oxirane**Proposition 65:** Male Repro Toxins (>0.0%): Oxirane**N.J. RTK Substance (>1%):** 2-butoxy-ethanol**Penn RTK Substances (>1%):** 2-butoxy-ethanol**SECTION 16 OTHER INFORMATION**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.