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0975

SECTION I - GENERAL INFORMATION

TRADE NAME:
AriStat 975

EMERGENCY PHONE NO:
INFOTRAC #800-535-5053

CHEMICAL NAME:
Proprietary

DISTRIBUTOR'S D-U-N-S NO:
14-861-3045

HAZARDOUS MATERIAL DESCR: UN3265, Corrosive liquid, acidic, organic, n.o.s. (Mixture, containing 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)), 8, III

EMERGENCY RESPONSE GUIDE #: 153
REPORTABLE QUANTITY: N/A

SYNONYMS:
N/A

FORMULA:
Proprietary

CHEMICAL FAMILY:
N/A

MOLECULAR WEIGHT:
Proprietary

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENTS	% BY WT.	CAS NO.	OSHA	ACGIH	TWA
5-Chloro-2-methyl-2H- Isothiazol-3-one (CIT)	1.11	26172-55-4	N/A		
2-Methyl-2H-isothiazol- 3-one (MIT)	0.37	2682-20-4	N/A		

HAZARD RATING	HEALTH	3	REACTIVITY	0
	FIRE	0	SPECIAL	

SECTION 3 – PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY:
1.005-1.025 g/mL

pH:
3-4 @68° F

BOILING POINT:
~212° F (~100° C)

SOLUBILITY IN WATER:
Complete

VAPOR PRESSURE:
27.2 hPa (20 mm Hg)

PERCENT VOLATILE BY VOLUME:
N/A

EVAPORATION RATE:
N/A

APPEARANCE AND ODOR: Clear colorless liquid with a mild odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
N/A

FLAMMABLE LIMITS:
LEL: N/A UEL: N/A

AUTO IGNITION TEMPERATURE: This product is not self-igniting.

EXTINGUISHING MEDIA: Water spray jet, extinguishing powder, carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Hazardous thermal decomposition products under fire conditions include Sulfur dioxide, hydrogen chloride, carbon monoxide and oxides of nitrogen.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE: DANGER: Corrosive! Causes burns to eyes and skin. May cause sensitization by skin contact. Harmful if swallowed, inhaled, or absorbed through skin. Harmful to aquatic organisms. May cause long-term adverse effects to the aquatic environment. Oral Toxicity: RAT LD50 – 5,500 mg/Kg; Dermal Toxicity: RAT LD50 - >2,000 mg/Kg; Inhalation: RAT LC50 2.85 mg/L-4H. Primary irritant effect: eye: strong caustic effect; skin: caustic effect on skin and mucous membranes. Sensitization is possible through skin contact. Subacute to chronic toxicity: Non-teratogenic (EPCA 83-3 a); Non-mutagenic (OECD 471/EPA 84-4)

INGESTION: Product is harmful if swallowed. If the victim is conscious and alert and able to swallow, have them sip a glass of water. Do NOT induce vomiting unless told to do so by the Poison Control Center or doctor. Administer medicinal carbon (3 tablespoons elutriated in a glass of water). Call a Poison Control Center or doctor immediately for treatment advice.

SKIN CONTACT: Contact causes skin irritation and burns. Harmful if absorbed through the skin and can cause an allergic skin reaction. In case of skin contact, immediately remove contaminated clothing and flush skin thoroughly with plenty of water for 15 to 20 minutes. Call a Poison Control Center or a doctor for treatment advice.

EYE CONTACT: Contact causes eye irritation and burns. Immediately, rinse slowly and gently with water for 15 to 20 minutes, holding eyes open to ensure complete rinsing. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a Poison Control Center or doctor for treatment advice. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

INHALATION: If inhaled, remove victim to fresh air. If breathing stops, call 911 or an ambulance and then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for treatment advice.

CARCINOGENICITY: NTP; IARC; OSHA: No ingredients listed in these sections.

SECTION 6 - REACTIVITY DATA

STABILITY:
Stable

HAZARDOUS POLYMERIZATION:
Will not occur.

CONDITIONS TO AVOID: Avoid temperatures exceeding 40 ° F (60 ° C) and avoid freezing temperatures.

MATERIALS TO AVOID: Nucleophils, reducing agents, strong oxidizing agents, and alkalis.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous thermal decomposition products under fire conditions include Sulfur dioxide, hydrogen chloride, carbon monoxide and oxides of nitrogen.

SECTION 7 - SPILL OR LEAK PROCEDURE
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Collect large amounts in a suitable container. Cover the rest with absorbent, mix intensively, and collect mechanically. Dispose of contaminated material as waste according to Section 13. Ensure adequate ventilation. Surfaces can be decontaminated with a solution containing 5% sodium bisulfite and 5% sodium bicarbonate. In case of a spill drained to the sewer, collect contaminated water in a suitable container and add 10% sodium bisulfite solution. Contact supplier for further instructions. Suitable binder: Multi-purpose absorbent. Ensure adequate ventilation. Wear protective clothing. When selecting the protective suit, attention must be paid to providing complete and safe protection of skin and mucous membranes. Wear impermeable protective clothes, including protective boots made of neoprene, complete face protection, and nitrile rubber gloves with long tops. Prevent from spreading (e.g. by dusting a ring of chemical binder). As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Inform respective authorities in case of seepage into water course or sewage system.

WASTE DISPOSAL METHODS: DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact you State Pesticide or Environmental Control Agency or the Hazardous Waste representative at your nearest EPA Regulation Office for guidance.

UNCLEANED PACKAGINGS: Dispose of according to label instructions.

ENVIRONMENTAL TOXICITY DATA: On Actives:

Test Material	Aquatic Toxicity Data
Mixture of 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1), CAS Number 55965-84-9	48 hr EC50 (Daphnia): 0.12 mg/L 96 hr LC50 (Daphnia): 0.0036 mg/L 96 hr LC50 (Bluegill sunfish): 0.32 mg/L 96 hr LC50 (Rainbow trout): 0.22 mg/L 120 hr EC50 (Filamentous algae): 0.043 mg/L

REMARK: Toxic effect on activated sludge organisms possible with concentrations above 6 ppm CIT/MIT.

AOX INDICATION: Can affect the AOX-value of the effluent water. The active ingredient is not persistent; it is degraded under separation of the chlorine atom.

EU GUIDELINE NO. 76/464 EC: Due to its formulation, the product does not contain any heavy metals.

GENERAL NOTES: The product contains materials that are harmful to the environment.

PERSISTENCY AND DEGRADABILITY:

Method: OECD 301 D (Closed Bottle Test)

Analyzing Method: Oxygen demand

Degree of Elimination: >60%, 10d-Window

Other Information: The product is easily biodegradable.

MOBILITY AND BIOACCUMULATION POTENTIAL:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
log Pow -0.71 - +0.75; CIT/MIT

SECTION 8 - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed. An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. (filter-type A/P2).

EYE PROTECTION: Chemical splash goggles and full face shield. Chemical resistant gloves (Rubber, PVC, Neoprene, or Nitrile)

PROTECTION CLOTHING: Impervious apron and boots or chemical suit to prevent skin contact.

VENTILATION: General ventilation is recommended. Use a closed dosing system.

OTHER: Emergency eyewash and safety shower should be located nearby. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Protective equipment should be cleaned thoroughly after each use.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Handle product in closed systems preferably. Avoid splashes or sprays. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Wash thoroughly after handling. Do not take internally. Keep container tightly closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE: Store product in a cool, dry, well-ventilated area away from incompatible materials, food, and drinking water. Protect product from heat and direct sunlight. This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Care should be taken to ensure that the appropriate material is used for storage tanks, process pipelines, valve gaskets, pump seals, valve seats, etc.

SUGGESTED MATERIALS OF CONSTRUCTION:

Storage Tanks: Fiberglass reinforced polyester, polyethylene, polypropylene, glass-lined steel, 316L stainless steel

Process Pipe Work: Polypropylene-lined steel pipes, polypropylene, glass-lined steel, 316L stainless steel

Flexible Process Pipelines: Nordel, polypropylene, Viton, Teflon-lined connector hoses

Valve Gaskets: Teflon TFE, Teflon FEP

Pump Seals: Ryton, polypropylene

Valve seats: Teflon PFA

SECTION 10 - REGULATORY INFORMATION

OSHA Hazard Communication Status: Hazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: EPA Hazardous Substances (40 CFR 302):

<u>Chemical Name</u>	<u>CERCLA Reportable Quantity RQ)</u>
None	

SARA TITLE III (Sections 302, 311, 312, and 313):

Section 302 Extremely Hazardous Substances (40 CFR 355):

Section 311 and 312 Health and Physical Hazards:

<u>Immediate</u>	<u>Delayed</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactivity</u>
yes	yes	no	no	no

Section 313 Toxic Chemicals (40 CFR 372):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent by Weight</u>
None		

CALIFORNIA PROPOSITION 65: No raw materials used in making this product are regulated.

CANADA DSL: All ingredients are listed.

EPA REGISTRATION NUMBER: 67071-38-72493