

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**COMPANY ADDRESS:**

ALBAUGH, LLC
Ankeny, IA 50021

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : **AEGIS**
CHEMICAL NAME : Cyromazine
PRODUCT USE : Insecticide
PRODUCT CODE : EPA Reg. No 42750-222

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Colorless to slightly yellow clear liquid

HEALTH HAZARDS: Mildly irritating to the eyes and skin. May be harmful if swallowed.

PHYSICAL HAZARDS: Can decompose at high temperatures releasing toxic gases.

ENVIRONMENTAL HAZARDS: Slight toxicity to fish, water organisms and bees. Keep out of waterways.

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

| COMPONENT | PERCENTAGE | CAS NUMBER |
|-------------------|------------|------------|
| Cyromazine | 5.0% | 66215-27-8 |
| Other ingredients | 95.0% | n/a |

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: No specific antidote available, treat symptomatically.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

| | |
|--|---|
| HEALTH | 1 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |
| 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal | |

FLASHPOINT: > 100°C**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.**FIRE AND EXPLOSION HAZARD:** Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Minimize use of water to prevent environmental contamination. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece.**SECTION 6 - ACCIDENTAL RELEASE MEASURES****IN CASE OF SPILLS OR LEAKS:** Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation.**STORAGE:** Keep away from food, feed and drinking water. Store in a well ventilated dry place away from heat. Store at temperatures above 32° F. Refer to product label for instructions if product freezes.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm): .

| COMPONENT | OSHA PEL | ACIGH TLV |
|------------|------------|------------|
| Cyromazine | Not listed | Not listed |

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear:

EYE PROTECTION - Safety glasses or face shield recommended

CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks

GLOVES - Water proof gloves.

Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Appearance: | Colorless to slightly yellow clear liquid |
| Odor: | Oil and slightly acidic-like odor |
| pH: | 3.4 – 4.4 |
| Melting Point: | Not applicable |
| Boiling Point: | No data |
| Flash Point: | > 100°C |
| Evaporation Rate: | No data |
| Flammability: | Not flammable |
| Flammability Limits: | Not applicable |
| Vapor Pressure: | 4.48 x 10 ⁻⁴ mPa (25°C) |
| Vapor Density: | Not applicable |
| Density: | 1.01 – 1.05 g/ml (8.43 – 8.76 lb/gl)* |
| Solubility: | Emulsifies |
| Partition Coefficient: | log P _{ow} = -0.069 (pH 7.0) |
| Auto-Ignition Temperature: | No data |
| Decomposition Temperature: | No data |
| Viscosity: | 1.575 cSt (20°C); 0.970 cSt (40°C) |

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Corrosive to tin.

CHEMICAL STABILITY: Stable, however may decompose if heated.

HAZARDOUS REACTION/POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid temperatures above 100°F (38°C) for prolonged period of time. Strong exothermal reaction can occur above 390°F (200°C)

INCOMPATIBLE MATERIALS:

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of nitrogen and carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity values from a similar but not identical formulation.

ACUTE TOXICITY:

| | |
|-----------------------------------|--------------------|
| Oral LD ₅₀ (rat) | - >5,000 mg/Kg |
| Dermal LD ₅₀ (rat) | - > 2,000 mg/Kg |
| Inhalation LC ₅₀ (rat) | - > 2.5 mg/L |
| Eye Irritation (rabbit) | - Mild irritant |
| Skin Irritation (rabbit) | - Slight irritant |
| Sensitization (guinea pig) | - Not a sensitizer |

CARCINOGEN STATUS:

| | |
|------|--------------|
| OSHA | - Not listed |
| NTP | - Not listed |
| IARC | - Not listed |

TERATOGENICITY: No reproductive or teratogenic (birth defect) effects at normal exposure levels.

MUTAGENICITY: Little or no evidence of mutagenic effects during in vivo or in vitro studies.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is slightly toxic to fish and aquatic invertebrates. Keep out of water bodies. Slightly toxic to birds and bees. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to lakes, streams, or ponds.

FATE: Cyromazine and the principal metabolite melamine are moderately persistent with a soil half-life of 3 to 9 months depending on soil type and weather conditions. Cyromazine is slight to moderately mobile in soil.

FISH TOXICITY: (Technical)

| | |
|--|----------|
| 96 hour LC ₅₀ , Rainbow trout - | > 85 ppm |
| 96 hour LC ₅₀ , Bluegill - | > 85 ppm |

AVIAN TOXICITY: (Technical)

| | |
|---|-------------|
| 8-Day Dietary LC ₅₀ , Bobwhite quail - | > 5,500 ppm |
| 8-Day Dietary LC ₅₀ , Mallard duck - | > 5,500 ppm |

BEE TOXICITY: (Technical)

| | |
|----------------------------|-------------|
| Contact LD ₅₀ - | > 25 ug/bee |
|----------------------------|-------------|

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying.

Refer to the product label for additional and complete Container Handling instructions

SECTION 14 - TRANSPORT INFORMATION

SHIPPING DESCRIPTION: Not regulated by DOT
(Ground transport)

TRANSPORT HAZARD CLASS: N/A
UN NUMBER: N/A
DOT PACKING GROUP: PG III

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: No components listed

SARA TITLE III STATUS:
311/312 Hazard Categories Acute Health Hazard
313 Toxic Chemicals None

CALIFORNIA PROP 65: Not listed

TSCA: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SECTION 16 - OTHER INFORMATION

| | | |
|---------------------------|--|---|
| HMIS HAZARD RATINGS | HEALTH | 1 |
| | FLAMMABILITY | 1 |
| | PHYSICAL HAZARD | 0 |
| | 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal | |

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: November, 2014

REFERENCE: Revised for GHS compliance