

SAFETY DATA SHEET

Version 1

1. Identification of the Substance / Preparation and of the Company / Undertaking

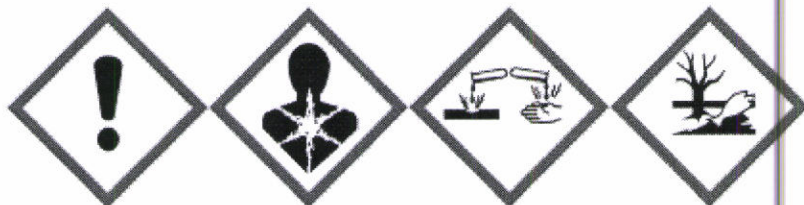
Product Name: Aqua Hawk 217
UN/ID No UN3264
Synonyms: None
Formula: Not applicable to mixtures
Company Name:
Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

Emergency Telephone:
CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

| | |
|--|------------------------|
| Aspiration toxicity | Category 1 |
| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 1 Category 1C |
| Serious eye damage/eye irritation | Category 1 |
| Germ Cell Mutagenicity: | Category 2 |
| Specific target organ toxicity (single exposure) | Category 2 |
| Chronic aquatic toxicity | Category 2 |



Signal Word:

Danger

Hazard Statements:

- Harmful if swallowed
- Causes severe skin burns and eye damage
- Suspected of causing genetic defects
- May cause damage to organs
- Toxic to aquatic life with long lasting effects
- May be fatal if swallowed and enters airways

Physical Hazards

Precautionary Statements:

- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 - Rinse mouth
- P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 - Wash contaminated clothing before reuse
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor/physician
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P308 + P313 - IF exposed or concerned: Get medical advice/attention
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P309 + P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P501 - Dispose of contents/container to industrial incineration plant
- P273 - Avoid release to the environment
- P391 - Collect spillage
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331 - Do NOT induce vomiting
- P405 - Store locked up
- P501 - Dispose of contents/ container to an approved waste disposal plant

3. Composition / Information on Ingredients

Hazardous

| Chemical Name | CAS No | Weight-% | EC No |
|---------------|--------|----------|------------|
| Trade Secret | - | 30-33 | Listed |
| Trade Secret | - | 8-12 | Not Listed |

Non-Hazardous

| Chemical Name | CAS No | Weight-% | EC No |
|---------------|--------|----------|--------|
| Trade Secret | - | Balance | Listed |

4. First Aid Measures

| | |
|------------------------|---|
| General Advice: | If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. |
| Eye Contact: | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| Skin Contact: | Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Inhalation: | Move to fresh air. Obtain medical attention. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. |
| Ingestion: | Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. |

Note to Physicians:

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Self-protection of the First Aider:

Use personal protective equipment as required.

5. Fire-fighting Measures**Flammable Properties:**

Not considered to be a fire hazard

Explosive Properties:

Sealed containers may rupture when heated

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray may be used to keep fire exposed containers cool

Unsuitable Extinguishing Media:

No information available

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures**Personal Precautions:**

Use only with adequate ventilation.

Environmental Precautions:

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods for Cleaning Up:

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

Other Information:

Not applicable.

7. Handling and Storage**Advice on Safe Handling:**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Materials:

Strong oxidizing agents; Strong bases; Metals; Aluminum; Potassium

8. Exposure Controls / Personal Protection**Exposure Guidelines**

| Chemical Name | | ACGIH TLV | | OSHA PEL | | Ontario TWA | |
|---------------|----------------|-----------------------------|-------|---------------------------------------|---------------------|-------------|--|
| Trade Secret | | TWA: 1 mg/m ³ Fe | | (vacated) TWA: 1 mg/m ³ Fe | | | |
| Chemical Name | European Union | China | Japan | Korea | Australia | Taiwan | |
| Trade Secret | | | | TWA: 1 mg/m ³ | 1 mg/m ³ | | |

| | |
|--|--|
| Exposure Guidelines | Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) |
| Engineering Controls: | Ensure adequate ventilation, especially in confined areas |
| Personal protective equipment (PPE) | |
| Eye/Face Protection: | Tight sealing safety goggles. |
| Body Protection: | Suitable protective clothing. |
| General Hygiene Considerations: | |
| Wash contaminated clothing before reuse. | |

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | | |
|-----------------|--------------------------|-----------------|--------------------------|
| Physical State: | Liquid | Odor: | Slight, Amine |
| Appearance: | No information available | Odor Threshold: | No information available |
| Color: | Orange To Brown | | |

| Property | Values | Remarks • Method |
|--|---|--------------------------|
| pH: | | No information available |
| "Salt Out" Point (°F): | | No information available |
| Melting Point/Freezing Point: | | |
| Boiling Point/Boiling Range: | 230 °C / 446 °F | |
| Flash Point: | | No information available |
| Evaporation Rate (BuAc=1): | | No information available |
| Flammability (solid, gas): | | No information available |
| Flammability Limits in Air: | | No information available |
| Upper Flammability Limit: | | |
| Lower Flammability Limit: | | |
| Vapor Pressure (mm Hg) : | 40 | No information available |
| Vapor density (Air =1) | | No information available |
| Specific Gravity (H ₂ O=1): | 1.353 | |
| Specific Gravity (2nd value): | | |
| Water Solubility: | Completely soluble | |
| Solubility(ies): | | No information available |
| Partition Coefficient (n-octanol/water) | | No information available |
| Autoignition Temperature: | | |
| Decomposition Temperature: | | No information available |
| Kinematic Viscosity: | | No information available |
| Dynamic Viscosity: | | No information available |
| Oxidizing Properties: | No information available | |
| Explosive Properties: | Sealed containers may rupture when heated | |

9.2. Other information

| | |
|-------------------|--------------------------|
| Softening Point: | No information available |
| Molecular Weight: | No information available |
| VOC Content(%): | No information available |
| Density: | No information available |
| Bulk Density: | No information available |

10. Stability and Reactivity

| | |
|-------------------------|--|
| Stability: | Stable under normal conditions of use and storage |
| Conditions to Avoid: | Exposure to light; Heat |
| Incompatible Materials: | Strong oxidizing agents, Strong bases, Metals, Aluminum, Potassium |

Hazardous Decomposition Products:Emits toxic hydrogen chloride fumes when heated to decomposition; Nitrogen oxides (NO_x); Carbon dioxide (CO₂); Carbon monoxide

Possibility of Hazardous Reactions: None under normal processing

11. Toxicological Information**Product Information**

Acute Toxicity: 36.6% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

| Chemical Name | Oral LD ₅₀ : | Dermal LD ₅₀ : | LC ₅₀ (Lethal Concentration): |
|---------------|-------------------------|---------------------------|--|
| Trade Secret | 316 mg/kg (Rat) | | |
| Trade Secret | 90 mL/kg (Rat) | | |
| Trade Secret | > 5000 mg/kg (Rat) | | |

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Target Organ Effects: Eyes, Gastrointestinal tract (GI), Liver, Respiratory system, Skin

12. Ecological Information**Ecotoxicity**

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Toxic to aquatic life with long lasting effects

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---------------|--|---|---|
| Trade Secret | | 20.26: 96 h <i>Lepomis macrochirus</i> mg/L LC50 semi-static 20.95 - 22.56: 96 h <i>Pimephales promelas</i> mg/L LC50 semi-static 75.6: 96 h <i>Gambusia affinis</i> mg/L LC50 static | 27.9: 48 h <i>Daphnia magna</i> mg/L EC50 9.6: 48 h <i>Daphnia magna</i> mg/L EC50 Static |
| Trade Secret | Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. | Fish LC50/ <i>Danio rerio</i> /96 hr > 10 - 100 mg/L (OECD 203) | EC50/ <i>Daphnia magna</i> /48 hr > 50 mg/L (OECD 202) |

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

| Chemical Name | Partition Coefficient: |
|---------------|------------------------|
| Trade Secret | -4 |

13. Disposal Considerations

Waste from Residues/Unused Products:

Disposal should be in accordance with applicable regional, national and local laws and regulations

14. Transport Information**DOT**

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (FERRIC CHLORIDE)
 Hazard Class 8
 UN/ID No UN3264
 Packing Group III
 Reportable Quantity (RQ) 1000 lbs
 Description UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (FERRIC CHLORIDE), 8, PG III

**15. Regulatory Information****International Inventories**

All of the components in the product are on the following inventory lists: TSCA (United States);, Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL);, China (IECSC), Philippines (PICCS),
 This product contains a substance not listed on international inventories - it is for research and development use only.

AICS -
 TSCA -
 DSL/NDL -
 EINECS/ELINCS -
 ENCS -
 IECSC -
 KECL -
 PICCS -

| Chemical Name | AICS | TSCA | DSL | NDL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS |
|---------------|--------|--------|--------|-----|--------|--------|---------|--------|----------|---------|
| Trade Secret | Listed | Listed | Listed | - | Listed | - | (1)-213 | Listed | KE-21134 | Present |
| Trade Secret | Listed | Listed | Listed | - | Listed | - | - | Listed | KE-35400 | Present |

Inventory Legend

AICS - Australian Inventory of Chemical Substances
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | CERCLA Hazardous Substances and the Reportable Quantities | SARA Extremely Hazardous Substances EPCRA RQ | SARA Extremely Hazardous Substances TPQ |
|---------------|---|--|---|
| Trade Secret | 1000 lb 454 kg | - | - |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

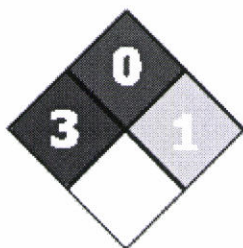
SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic health hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive hazard | No |

U.S. State Right-to-Know Regulations**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

| Chemical Name | California Proposition 65: |
|---------------|---|
| Trade Secret | This product contains a chemical(s) known to the State of California to cause cancer: residual Acrylamide |

16. Other Information**National Fire Protection Association (NFPA) Ratings****NSF Certification**

Certified to
NSF/ANSI 60

Maximum Use (mg/L unless
otherwise indicated): 200

Prepared By: HSE Department

Issue Date: 06-May-2013

Revision Date: 06-May-2013

Revision Note: MSDS converted to GHS SDS Format.

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet