



# Material Safety Data Sheet

Print date: 09/12/2005

Version: 2

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## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product code:** 010968-03  
**Product name:** ADDITIVE HWL

**Supplier:**  
Quaker Chemical Corporation  
Quaker Park One  
901 Hector Street  
Conshohocken, PA 19428  
610-832-4000  
E-mail: she@quakerchem.com

**Emergency telephone number:**  
\* 24 HOUR TRANSPORTATION:  
\*\*CHEMTREC: 1-800-424-9300  
703-527-3887 (Call collect outside of US)  
\* 24 HOUR EMERGENCY HEALTH & SAFETY:  
\*\*QUAKER CHEMICAL CORPORATION: (800) 523-7010  
(Within US only)  
Outside of US call (703) 527-3887

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS COMPONENTS

| Components  | CAS No. | Weight % | OSHA Ceiling Limits | OSHA TWA (final):            | ACGIH Ceiling Limits | ACGIH Exposure Limits: | Vendor Exposure Limits: |
|-------------|---------|----------|---------------------|------------------------------|----------------------|------------------------|-------------------------|
| Acetic acid | 64-19-7 | 10 - 15% |                     | 10ppm<br>25mg/m <sup>3</sup> |                      | 10 ppm<br>15ppmSTEL    |                         |

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

**CORROSIVE**

The product causes burns of eyes, skin and mucous membranes.  
Risk of serious damage to eyes  
Harmful if swallowed.

**Signal word:** DANGER

**Principle routes of exposure:** Eyes, skin and inhalation.

**Eye contact:** Causes eye burns. Risk of serious damage to eyes.

**Skin contact:** Causes skin burns.

**Inhalation:** Avoid breathing vapors or mists. Irritating to respiratory system.

**Ingestion:** Can burn mouth, throat, and stomach.

**Physico-chemical properties:** No hazards resulting from material as supplied.

**Safe handling advice:** Wear personal protective equipment. Keep container tightly closed. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling.

**Storage**

**Technical measures/storage conditions:** Store at room temperature in the original container

**Incompatible products:** Do not store together with alkalines

**Safe storage temperature:** 40-100 ° F

**Shelf life:** 12 months

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

| Components  | ACGIH Ceiling Limits | ACGIH Exposure Limits: | OSHA Ceiling Limits | OSHA TWA (final):            | NIOSH - Pocket Guide - TWAs:   | Vendor Exposure Limits: |
|-------------|----------------------|------------------------|---------------------|------------------------------|--|-------------------------|
| Acetic acid |                      | 10 ppm<br>15ppmSTEL    |                     | 10ppm<br>25mg/m <sup>3</sup> | 10ppmTWA<br>15ppmSTEL<br>25mg/m <sup>3</sup> TWA<br>37mg/m <sup>3</sup> STE<br>L | None                    |

**Engineering measures:** Ensure adequate ventilation.

**Personal Protective Equipment**

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH/MSHA certified respirator with organic vapor/HEPA filters should be worn.

**Hand protection:** Neoprene gloves - 0.75 mm - 30 min

**Skin and body protection:** Chemical resistant apron, Long sleeved clothing

**Eye protection:** Goggles.

**Hygiene measures:** Avoid contact with the skin and the eyes.



**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical state:** Liquid  
**Color:** orange  
**Odour:** Strong, Vinegar-like  
**Boiling point/boiling range (°C):** >100  
**Boiling point/range (°F):** >212

**Vapour pressure:** Not determined  
**Vapour density:** Not determined  
**VOC Content Product:** 2.45 lb/gal (EPA 24)  
**Solubility:** Completely soluble  
**Evaporation rate:** Not determined  
**pH:** 4.3-4.5  
**Flash point (°C):** NA Boils  
**Flash point (°F):** NA Boils  
**Decomposition temperature:** Not determined  
**Auto-ignition temperature:** Not determined  
**Density @ 15.5 ° C (g/cc) :** 1.126  
**Bulk density @ 60 ° F (lb/gal):** 9.40  
**Partition coefficient (n-octanol/water, log Pow):** Not determined  
**Explosive properties:**  
   - upper limit: No data available  
   - lower limit: No data available

**10. STABILITY AND REACTIVITY**

**Stability:**

Stable under recommended storage conditions.

**Conditions to avoid:**

None known

**Materials to avoid:**

Strong bases, Strong oxidising agents

**Hazardous decomposition products:**

None under normal use

**Polymerization:**

Not applicable

**11. TOXICOLOGICAL INFORMATION**

No toxicological information is available on the product. Data obtained on components are summarized below.

| Components  | NTP:  | IARC:  | OSHA -<br>Select Carcinogens   | NIOSH -<br>Selected LD50s and<br>LC50s  |
|-------------|---|--|--|---|
| Acetic acid | This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP). | This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC). | This product does not contain any material shown to be a carcinogen by OSHA. | 1060mg/kgDermal LD50Rabbit<br>11.4mg/LInhalation LC50Rat<br>3310mg/kgOral LD50Rat |

## 12. ECOLOGICAL INFORMATION

**Persistence and degradability:** No information available

**Mobility:** No data available

**Bioaccumulation:** No data available

**Ecotoxicity effects:** No data available

**Aquatic toxicity:** Not Determined

### *Acetic acid*

**Ecotoxicity - Fish Species Data** = 423 mg/L LC50 goldfish 24 h  
= 75 mg/L LC50 bluegill sunfish 96 h  
= 88 mg/L LC50 fathead minnow 96 h static

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Take up mechanically and collect in suitable container for disposal.

## 14. TRANSPORT INFORMATION

### U. S. DEPARTMENT OF TRANSPORTATION:

|   |   |
|---|---|
| <b>UN/NA ID Number:</b>                 | UN1760  |
| <b>Proper shipping name:</b>            | Corrosive liquid, N.O.S. (contains acetic acid) |
| <b>Hazard Class</b>                     | 8   |
| <b>Packing group:</b>                   | II  |
| <b>RQ:</b>                              | Acetic acid, RQ kg= 13341.18                    |
| <b>Emergency Response Guide Number:</b> | 154   |

### TDG (CANADA):

|                                   |   |
|-----------------------------------|---|
| <b>UN nr:</b>                     | 1760  |
| <b>Proper shipping name:</b>      | Corrosive liquid, N.O.S. (contains acetic acid) |
| <b>TDG Hazard Classification:</b> | 8   |
| <b>Packing group:</b>             | II  |

### IMDG/IMO:

|                              |   |
|------------------------------|---|
| <b>UN nr:</b>                | 1760  |
| <b>Proper shipping name:</b> | Corrosive liquid, N.O.S. (contains acetic acid) |
| <b>Class:</b>                | 8   |
| <b>Packing group:</b>        | II  |

### IATA/ICAO:

|                              |   |
|------------------------------|---|
| <b>UN nr:</b>                | 1760  |
| <b>Proper shipping name:</b> | Corrosive liquid, N.O.S. (contains acetic acid) |
| <b>Packing group:</b>        | II  |

**CLASSIFICATION AND LABELING**

**OSHA Hazard Communication Standard:**

This product is considered to be hazardous under the OSHA Hazard Communication Standard.

**Canada - WHMIS Classification Information:**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**Product Classification:  
Product Classification  
Graphic(s):**

Class E - Corrosive Material



**Component Classification Data:**

**Acetic acid - 64-19-7  
WHMIS hazard class:**

1 % (English Item 6, French Item 51)  
B3, E (including 80%, 84%, 92%); E (30%, 36%, 56%); Uncontrolled product according to WHMIS classification criteria

**Canadian National Pollution Inventory Data:**

**U.S. REGULATIONS:**

**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

**Immediate Health (Acute):** Yes  
**Delayed Health (Chronic):** No  
**Flammability:** No  
**Pressure:** No  
**Reactivity:** No

**RCRA Status** Not Regulated

**STATE REGULATIONS (RTK):**

**California Proposition 65 Status:** No components are listed

**Acetic acid - 64-19-7**

**MARTK:** Present  
**NJRTK:** sn 0004  
**PARTK:** Environmental hazard

#### 4. FIRST AID MEASURES

|  |   |
|--|---|
| <b>General advice:</b>                           | Rinse immediately with plenty of water and seek medical advice. Show this safety data sheet to the doctor in attendance.  |
| <b>Eye contact:</b>                              | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician  |
| <b>Skin contact:</b>                             | Rinse immediately with plenty of water for at least 15 minutes. Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical treatment necessary as untreated skin corrosions are slow and bad healing wounds.. |
| <b>Ingestion:</b>                                | If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. Never give anything by mouth to an unconscious person.  |
| <b>Inhalation:</b>                               | Call a physician immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  |
| <b>Notes to physician:</b>                       | This product contains acetic acid   |
| <b>Medical condition aggravated by exposure:</b> | Dermatitis.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |   |
|--|--|---|
| <b>Flash point (°C):</b> NA Boils                          | <b>Flash point (°F):</b> NA Boils  | <b>Flash Point Method:</b> Not applicable |
| <b>Flammable limits in air - upper (%):</b> Not determined | <b>Flammable limits in air - lower (%):</b> Not determined   |   |
| <b>Suitable extinguishing media:</b>                       | Use dry chemical, CO2, water spray or 'alcohol' foam.  |   |
| <b>Unusual hazards:</b>                                    | None known   |   |
| <b>Special protective equipment for fire-fighters:</b>     | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |   |
| <b>Specific methods:</b>                                   | Water mist may be used to cool closed containers.  |   |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                   |   |
|-----------------------------------|---|
| <b>Personal precautions:</b>      | Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. |
| <b>Environmental precautions:</b> | Do not flush into surface water or sanitary sewer system.   |
| <b>Methods for cleaning up:</b>   | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).                                  |

#### 7. HANDLING AND STORAGE

##### Handling

|  |   |
|--|---|
| <b>Technical measures/precautions:</b> | Provide sufficient air exchange and/or exhaust in work rooms. |
|--|---|

**INVENTORY STATUS:**

**United States TSCA - Sect. 8(b) Inventory:** This product complies with TSCA

**Canada DSL Inventory List -** This product complies with DSL

**EC No.** This product complies with EINECS

**16. OTHER INFORMATION**

**Sources of key data used to compile the data sheet:** Material safety data sheets of the ingredients.

**Reason for revision:** This data sheet contains changes from the previous version in section(s) 9

**Prepared by:** Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

**HMIS classification:**

**NFPA rating:**

**Health:**  
3

**Health:**  
3

**Flammability:**  
0

**Flammability:**  
0

**Reactivity:**  
0

**Reactivity:**  
0

**Personal Protection:**  
H

**Special:**  
NA

\* Indicates possible chronic health effect

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

**Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Quaker Chemical Corporation ("Quaker") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Quaker.

**End of Safety Data Sheet**