



# MATERIAL SAFETY DATA SHEET

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## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product name:** ADDITIVE 4705  
**Product code:** 104705-01U-02

**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

This product does not contain any hazardous ingredients as defined under 29 CFR 1910.1200.

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

This product may cause irritation of the eyes, skin, mucous membranes and respiratory tract.  
May be harmful if swallowed.

**Signal word:** CAUTION

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

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** May cause skin irritation and/or dermatitis.

**Inhalation:** May cause irritation of respiratory tract. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

## 4. FIRST AID MEASURES

<b>General advice:</b>	Show this safety data sheet to the doctor in attendance. Wash off with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Consult a physician.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin contact:</b>	Wash off immediately with plenty of water for at least 15 minutes Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
<b>Note to physician:</b>	Treat symptomatically.
<b>Medical condition aggravated by exposure:</b>	Dermatitis

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point (°C):</b> >100	<b>Flash Point (°F):</b> >212	<b>Flash Point Method:</b> PMCC
<b>Flammable limits in air - lower (%):</b> Not determined	<b>Flammable limits in air - upper (%):</b> Not determined	
<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or `alcohol` foam.	
<b>Specific hazards:</b>	Do not allow material to contaminate ground water system.	
<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. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Use personal protective equipment. Wash thoroughly after handling
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

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### Handling

**Technical measures/precautions:** Provide sufficient air exchange and/or exhaust in work rooms.

**Safe handling advice:** In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not breathe vapors/dust. Wear personal protective equipment. Wash thoroughly after handling.

### Storage

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

**Incompatible products:** Strong oxidizing agents

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

**Shelf life:** 12 months

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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-certified respirator with organic vapor/P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields.

**Hand protection:** Neoprene gloves

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Color:** White  
**Odor:** Mild  
**Vapour density:** Not determined  
**Vapor pressure (kPa):** Not determined  
**Viscosity:** 4000 mm<sup>2</sup>/s  
**Solubility in water:** Dispersible  
**Evaporation rate:** Not determined  
**Flash Point (°C):** >100  
**Flash Point (°F):** >212  
**Decomposition temperature (°C):** Not determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Auto-ignition temperature (°C):</b>	Not determined
<b>Volatiles (% by volume) :</b>	<1
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Explosive Limits:</b>	
- 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 oxidizing agents

### Hazardous decomposition products:

Carbon oxides, Silicon Dioxide, Formaldehyde.

### Hazardous Polymerization:

Not applicable

## 11. TOXICOLOGICAL INFORMATION

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

## 12. ECOLOGICAL INFORMATION

**Persistence and degradability:** No information available

**Mobility:** No data available

**Bioaccumulation:** Not available

**Ecotoxicity effects:** No data available

**Aquatic toxicity:** Not Determined

### Component Information

## 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:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 14. TRANSPORT INFORMATION

### U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

### TDG (CANADA):

Proper shipping name: Not Regulated

### IMDG/IMO:

Proper shipping name: Not Regulated

### IATA/ICAO:

Proper shipping name: Not Regulated

## 15. REGULATORY INFORMATION

### CANADIAN REGULATIONS:

**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.

**Canadian Product Classification:** None Required

**Product Classification Graphic(s):**

### Component Classification Data:

### U.S. FEDERAL REGULATIONS:

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

### CERCLA/SARA Information:

**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

### Clean Air and Clean Water Acts:

**RCRA Status:** Not regulated

### U.S. STATE REGULATIONS (RTK):

### INVENTORY STATUS:

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

<b>16. OTHER INFORMATION</b>
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**Sources of key data used to compile the data sheet:** Material safety data sheets of the ingredients.

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

**Reason for revision:** This data sheet contains changes from the previous version in section(s) 7.

<u>HMIS classification:</u>	<u>HMIS Use Dilution</u>	<u>NFPA rating:</u>
<b>Health:</b> 1	<b>Health</b> --	<b>Health:</b> 1
<b>Flammability:</b> 0	<b>Flammability</b> --	<b>Flammability:</b> 0
<b>Reactivity:</b> 0	<b>Reactivity</b> --	<b>Reactivity:</b> 0
<b>Personal Protection:</b> B	<b>Personal Protection</b> --	<b>Special:</b> 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**