# MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

Material name AKWASEAL™ HC

Version # 05

Revision date 24-February-2011

Chemical description Liquid
CAS # Mixture
Manufacturer information CETCO

Building Materials Group 2870 Forbs Avenue

Hoffman Estates, IL 60192 US safety.data@amcol.com http://www.cetco.com/

General Information (800) 527-9948 CHEMTREC® (800) 424-9300

### 2. Hazards Identification

Emergency overview Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin

contact. Prolonged or repeated exposure increases the risk.

Potential health effects

Routes of exposure Inhalation. Skin contact.

Eyes Irritating to eyes. Symptoms include itching, burning, redness and tearing.

**Skin** Substance causes moderate skin irritation. May cause sensitization by skin contact.

**Inhalation** May cause irritation of respiratory tract. May cause sensitization by inhalation.

**Ingestion** Irritating to mouth, throat, and stomach. Ingestion of this product may cause nausea, vomiting and

diarrhea.

**Signs and symptoms** Cough. Discomfort in the chest. Shortness of breath.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent	
POLYMETHYLENE POLYPHENYLENE ISOCYANATE	9016-87-9	30 - 60	
PROPYLENE CARBONATE	108-32-7	15 - 40	

Composition comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if

irritation develops or persists.

**Skin contact** Wash off immediately with plenty of water. Remove and isolate contaminated clothing and shoes.

Get medical attention if irritation develops or persists.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately.

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not induce

vomiting without medical advice. If swallowed, rinse mouth with water (only if the person is

conscious).

Notes to physician Symptoms may be delayed. Keep under medical supervision for at least 48 hours. Provide

general supportive measures and treat symptomatically.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

### 5. Fire Fighting Measures

Flammable properties Containers may explode when heated.

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Extinguishing media

Suitable extinguishing

media

Carbon dioxide (CO2). Alcohol foam. Water spray. Dry chemical. Foam.

**Protection of firefighters** 

Protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

Fire fighting

equipment/instructions

Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Withdraw immediately in case of rising sound from venting safety

devices or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in

flame. Cool containers with flooding quantities of water until well after fire is out.

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Specific methods

### 6. Accidental Release Measures

Ensure adequate ventilation. Use personal protective equipment. Do not touch or walk through Personal precautions

spilled material. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Methods for containment** Methods for cleaning up

Prevent further leakage or spillage if safe to do so.

Stop leak if you can do so without risk. Dike the spilled material, where this is possible.

Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After removal flush contaminated area

thoroughly with water. Ventilate the contaminated area.

### 7. Handling and Storage

Wash hands after handling and before eating. When using do not eat or drink. Avoid contact with Handling

skin and eyes. Do not get this material in your eyes, on your skin, or on your clothing. Do not

handle or store near an open flame, heat or other sources of ignition.

Storage Keep locked-up. Keep out of the reach of children. Keep this material away from food, drink and

animal feed. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Keep away from heat,

sparks, and flame.

### 8. Exposure Controls / Personal Protection

**Engineering controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control

airborne levels below recommended exposure limits. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection

must be worn.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Use of butyl rubber or nitrile gloves is recommended

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the

positive pressure mode with emergency escape provisions.

### 9. Physical & Chemical Properties

Not available. **Appearance** 

Brown. Color

Slightly, Musty. Odor Not available. **Odor threshold** Physical state Not available.

Liquid. Form

рΗ Not available. Not available. Melting point/Freezing point Not available. **Boiling point** Flash point Not available. Not available. **Evaporation rate** Flammability limits in air, upper, Not available.

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% by volume

Flammability limits in air, lower, Not available.

% by volume

Not available. Vapor pressure Vapor density Not available. Specific gravity Not available.

Relative density 0.8881 g/cm3 estimated

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 120 - 150 cps

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable at normal conditions. No hazards to be especially mentioned.

Direct sources of heat. Keep away from water. Conditions to avoid

Incompatible materials This product may react with strong oxidizing agents. Reaction with water may generate much heat

which will increase the concentration of fumes in the air.

Hazardous decomposition

Possibility of hazardous

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. and hydrogen cyanide (hydrocyanic acid)

Hazardous polymerization can occur with elevated temperatures. Hazardous polymerization can occur with contact with alkalies. Hazardous polymerization can occur with metallic catalysts.

reactions

# 11. Toxicological Information

Toxicological data

Product	Test Results
AKWASEAL™ HC (Mixture)	Acute Dermal LD50 Rabbit: 15644 mg/kg estimated
	Acute Dermal LD50 Rat: 15644 mg/kg
	Acute Inhalation LC50 Rat: 4 mg/l/4h
	Acute Oral LD50 Rabbit: 76.67 ml/kg estimated
	Acute Oral LD50 Rat: 53316 mg/kg
Components	Test Results
PROPYLENE CARBONATE (108-32-7)	Acute Dermal LD50 Rabbit: 20000 mg/kg
	Acute Oral LD50 Rabbit: >= 20 ml/kg
	Acute Oral LD50 Rat: 29000 mg/kg
POLYMETHYLENE POLYPHENYLENE ISOCYANATE (9016-87-9)	Acute Dermal LD50 Rabbit: 9400 mg/kg
	Acute Inhalation LC50 Rat: 490 mg/l/4h
	Acute Oral LD50 Rat: 49000 mg/kg

May cause sensitization by inhalation and skin contact. Sensitization

Local effects Harmful by inhalation. Irritating to respiratory system and skin.

**Chronic effects** Repeated or prolonged contact causes sensitization, asthma and eczemas. Repeated or

prolonged skin contact may cause allergic reactions with susceptible persons.

Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

POLYMETHYLENE POLYPHENYLENE ISOCYANATE 3 Not classifiable as to carcinogenicity to humans.

(CAS 9016-87-9)

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory **Further information** 

conditions, should not work with isocyanates.

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# 12. Ecological Information

# **Ecotoxicological data**

Product	Test Results
AKWASEAL™ HC (Mixture)	EC50 Daphnia: >= 1000 mg/l 24.00 Hours
	LC50 Fish: >= 1000 mg/l
Components	Test Results
PROPYLENE CARBONATE (108-32-7)	EC50 Daphnia: 500 mg/L 48.00 Hours
	IC50 Algae: 500 mg/L 72.00 Hours
	LC50 Fish: 2200 mg/L 96.00 Hours

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Environmental effects** We have no quantitative data concerning the ecological effects of this product.

Persistence and degradability Not available.

### 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

# 14. Transport Information

### **TDG**

**Proper shipping name** WATER-REACTIVE LIQUID, N.O.S., SOLUTION (POLYMETHYLENE POLYPHENYLENE ISOCYANATE)

Hazard class4.3UN numberUN3148Packing groupIIISpecial provisions16



# 15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D1A - Immediate/Serious-VERY TOXIC

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling



#### **Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

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Country(s) or region Inventory name On inventory (yes/no)\* Europe European List of Notified Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ENCS) Nο Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No **Philippines** Philippine Inventory of Chemicals and Chemical Substances Nο (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

#### **Recommended restrictions**

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

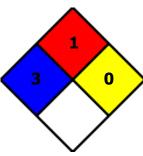
#### **Further information**

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### **HMIS** ratings



#### NFPA ratings



### Disclaimer

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24-February-2011

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