MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name AKWASEAL™ SS

Version # 05

Revision date 29-February-2012

Chemical description Liquid
CAS # Mixture
Manufacturer information CETCO

Building Materials Group 2870 Forbs Avenue

Hoffman Estates, IL 60192 United States

safety.data@amcol.com http://www.cetco.com/

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

2. Hazards Identification

Potential health effects

Routes of exposure Inhalation. Skin contact.

Eyes Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening

and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the

eyes.

Skin Moderate skin irritation. Prolonged or repeated skin contact may cause skin irritation or allergic

skin sensitization reaction.

Inhalation Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause

sensitization by inhalation.

Ingestion Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
POLYMETHYLENE POLYPHENYLENE ISOCYANATE	9016-87-9	40 - 60	

4. First Aid Measures

First aid procedures

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention if irritation develops or persists.

Skin contact Wash affected area with mild soap and water. Remove and isolate contaminated clothing and

shoes. Launder contaminated clothing before reuse. Get medical attention if irritation develops or

persists.

Inhalation If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is

greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Get medical attention immediately. Keep victim warm. If the affected person is not breathing, apply artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Have victim rinse

mouth thoroughly with water. If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Aspiration may cause pulmonary edema and

pneumonitis.

Notes to physician Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Keep under medical supervision for at least 48 hours.

General advice If you feel unwell, seek medical advice (show the label where possible). Symptoms of poisoning

may only appear several hours later. Keep victim under observation.

Material name: AKWASEAL™ SS

5. Fire Fighting Measures

Flammable properties Container may explode in heat of fire.

Extinguishing media

Suitable extinguishing

media

Dry chemical, foam, carbon dioxide, water fog.

Protection of firefighters

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Fire fighting

equipment/instructions

Containers can build up pressure if exposed to heat (fire). Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it without risk. Dike

fire control water for later disposal.

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

water spray to cool unopened containers.

Hazardous combustion

products

Irritating and toxic gases or fumes may be released during a fire.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Do not touch or walk through spilled material. Do not touch damaged

containers or spilled material unless wearing appropriate protective clothing.

Do not flush into surface water or sanitary sewer system. Do not contaminate water. Runoff from **Environmental precautions**

fire control or dilution water may cause pollution.

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

entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Ventilate the contaminated area. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Wear appropriate protective equipment and clothing

during clean-up.

7. Handling and Storage

Handling Use this product with adequate ventilation. Keep this product from heat, sparks, or open flame.

When using do not eat or drink.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures **Storage**

between 13 and 48°C. Never allow product to get in contact with water during storage. Purge open drums with nitrogen before resealing. Keep out of the reach of children. Keep this material

away from food, drink and animal feed.

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.

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. Recommended gloves include rubber, neoprene,

nitrile or viton.

Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

General hygiene considerations

When using, do not eat, drink or smoke. Avoid contact with skin. Avoid contact with eyes. Keep away from food and drink. Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice. When using do not smoke. When using do not eat or drink.

9. Physical & Chemical Properties

Not available. **Appearance**

Physical state Liquid. Liquid. **Form** Brown. Color

Material name: AKWASEAL™ SS

Odor Musty.

Odor threshold Not available.
pH Not available.

Vapor pressure 0.059989999 hPa estimated

Vapor density Not available.

Boiling point 467.6 °F (242 °C) estimated **Melting point/Freezing point** -55.8 °F (-48.8 °C) estimated

Solubility (water) Insoluble
Specific gravity 1.18 - 1.21

1.20190019 estimated

Relative density Not available.

Flash point 361.4 °F (183.00000064 °C) estimated

Flammability limits in air, upper, Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Auto-ignition temperature Not available.

Viscosity 55 - 75 cps at 77 F

Other data

Density 1.20178 g/cm3 estimated
Flammability class Combustible IIIB estimated

Flash point class Combustible IIIB

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid Exposure to moisture. Direct sources of heat.

Incompatible materials Acids. Alcohols. Amides. Amines. Ammonia. Caustics. Glycol. Water.

Hazardous decomposition

products

Nitrogen oxides (NOx). Carbon monoxide.

Possibility of hazardous

reactions

Hazardous polymerization can occur with elevated temperatures.

11. Toxicological Information

Toxicological data

Product	Test Results	
AKWASEAL™ SS (Mixture)	Acute Dermal LD50 Rabbit: 15905.2451 mg/kg estimated	
Components	Acute Inhalation LC50 Rat: 1088.8889 mg/l/4h estimated Acute Oral LD50 Rabbit: 66.6667 ml/kg estimated Acute Oral LD50 Rat: 51207.207 mg/kg estimated Test Results	
POLYMETHYLENE POLYPHENYLENE ISOCYANATE (9016-87-9)) Acute Dermal LD50 Rabbit: 9400.0001 mg/kg	
	Acute Inhalation LC50 Rat: 490 mg/l/4h Acute Oral LD50 Rat: 49000 mg/kg	
Sonsitization May cause sensitization by inha	lation and skin contact	

Sensitization May cause sensitization by inhalation and skin contact. **Carcinogenicity** Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

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.

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12. Ecological Information

Ecotoxicological data

Product Test Results

AKWASEAL™ SS (Mixture) EC50 Daphnia: 1666.667 mg/L 48 Hours estimated

> IC50 Algae: 1666.667 mg/L 72 Hours estimated LC50 Fish: 7333.3335 mg/L 96 Hours estimated

This product is not expected to produce significant ecotoxicity upon exposure to aquatic **Ecotoxicity**

organisms and aquatic systems.

Based on the physical properties of this product, significant environmental persistence and **Environmental effects**

bioaccumulation would not be expected.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. Do not allow this material to drain into

sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used

14. Transport Information

DOT

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class 9 Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306 Packaging non bulk 156, 306 Packaging bulk None

DOT

Packages less than 83 lbs

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class 9 Subsidiary hazard class

Additional information:

None

Packaging exceptions 156, 306 Packaging non bulk 156, 306 Packaging bulk None

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.





Packages less than 83 lbs

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15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly

Hazardous Process Safety Standard, 29 CFR 1910.119.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

POLYMETHYLENE POLYPHENYLENE ISOCYANATE 1.0 %

(CAS 9016-87-9)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

POLYMETHYLENE POLYPHENYLENE ISOCYANATE Listed.

(CAS 9016-87-9)

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

Section 302 extremely hazardous substance

No

Section 311 hazardous

No

chemical

Inventory status

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	No
Domestic Substances List (DSL)	No
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	No
European Inventory of Existing Commercial Chemical Substances (EINECS)	No
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	No
Existing Chemicals List (ECL)	No
New Zealand Inventory	No
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Toxic Substances Control Act (TSCA) Inventory	Yes
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS)

State regulations

US - New Jersey RTK - Substances: Listed substance

POLYMETHYLENE POLYPHENYLENE ISOCYANATE Listed.

(CAS 9016-87-9)

16. Other Information

Further information This safety datasheet only contains information relating to safety and does not replace any

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

product information or product specification.

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HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 1

NFPA ratings Health: 0

Flammability: 1
Instability: 0

Disclaimer

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text.

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Material name: AKWASEAL™ SS