MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name AKWASEAL™ SCF

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	20 - 40	
1,1'-Methylenebis (isocyanato-) benzene	26447-40-5	2.5 - 10	
METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI)	101-68-8	2.5 - 10	

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.

Material name: AKWASEAL™ SCF

5. Fire Fighting Measures

Flammable properties Containers may explode when heated.

Extinguishing media

Suitable extinguishing

media

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

Protection of firefighters

Protective equipment and precautions for firefighters

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.

flame. (

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.

Specific methods

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

6. Accidental Release Measures

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

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

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

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

Occupational exposure limits

Components	Туре	Value
METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI) (101-68-8)	TWA	0.0050 ppm
U.S OSHA		
Components	Туре	Value
METLIVLENE DIC(DUENVLICOCYANIATE) (DIDUENVL	Coiling	0.0000

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL Ceiling 0.0200 ppm METHANE-4,4'-DIISOCYANATE, MDI) (101-68-8)

0.2000 mg/m3

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 an

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.

General hygiene considerations

Keep away from food and drink. When using do not smoke. Use good industrial hygiene practices in handling this material. Eye wash fountain and emergency showers are recommended.

Material name: AKWASEAL™ SCF

9. Physical & Chemical Properties

Appearance Not available.

Clear to light yellow. Color Odor Slightly. Musty. Not available. **Odor threshold Physical state** Not available.

Liquid. **Form**

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

% by volume

Flammability limits in air, lower, Not available. % by volume

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

0.3597 lb/cu ft estimated Relative density

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

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** VOC Not available. **Viscosity** 500 - 700 cps

10. Chemical Stability & Reactivity Information

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

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

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

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)

Possibility of hazardous

reactions

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

11. Toxicological Information

Toxicological data

Product	Test Results	
AKWASEAL™ SCF (Mixture)	Acute Dermal LD50 Rabbit: 26734 mg/kg estimated	
	Acute Dermal LD50 Rat: 26734 mg/kg	
	Acute Inhalation LC50 Rat: 4 mg/l/4h	
	Acute Inhalation LC50 Rat: 3.745 mg/l estimated	
	Acute Oral LD50 Rat: 12911 mg/kg	
Components	Test Results	
METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI) (101-68-8)	Test Results Acute Inhalation LC50 Rat: 0.369 mg/l 4.00 Hours	
METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL		
METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL	Acute Inhalation LC50 Rat: 0.369 mg/l 4.00 Hours	

Material name: AKWASEAL™ SCF

MSDS US

Components **Test Results**

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

Sensitization May cause sensitization by inhalation and skin contact.

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

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIÌSOCYANATE, MDI) (CAS 101-68-8)

3 Not classifiable as to carcinogenicity to humans.

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.

12. Ecological Information

Ecotoxicological data

Product Test Results

EC50 Daphnia: >= 1000 mg/l 24.00 Hours AKWASEAL™ SCF (Mixture)

LC50 Fish: >= 1000 mg/l

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

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

Not available. Persistence and degradability

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Basic shipping requirements:

UN3148 UN number

Proper shipping name Water-reactive liquid, n.o.s. (POLYMETHYLENE POLYPHENYLENE ISOCYANATE METHYLENE

BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI) RQ = 50000

LBS)

Hazard class 4.3 Packing group Ш

Additional information:

Special provisions IB2 Basic shipping requirements: 4.3 Labels required

Additional information:

Packaging exceptions None 203 Packaging non bulk 242 Packaging bulk **ERG** number 138

DOT

Packages less than 83 lbs

Basic shipping requirements:

UN3148 UN number

Material name: AKWASEAL™ SCF MSDS US Proper shipping name Water-reactive liquid, n.o.s. (POLYMETHYLENE POLYPHENYLENE ISOCYANATE METHYLENE

BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI) RQ=50000 LBS)

Hazard class 4.3 Packing group III

Additional information:

Additional information:

Special provisions IB2
Basic shipping requirements:
Labels required 4.3

Packaging exceptions
Packaging non bulk
Packaging bulk
ERG number

None
203
242
138





Packages less than 83 lbs

15. Regulatory Information

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

Hazardous Process Safety Standard, 29 CFR 1910.119.

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

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL 1.0 %

METHANE-4,4'-DIISOCYANATE, MDI) (CAS 101-68-8)

POLYMETHYLENE POLYPHENYLENE ISOCYANATE 1.0 %

(CAS 9016-87-9)

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

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL Listed

METHANE-4,4'-DIISOCYANATE, MDI) (CAS 101-68-8)

POLYMETHYLENE POLYPHENYLENE ISOCYANATE Listed.

(CAS 9016-87-9)

CERCLA (Superfund) reportable quantity

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL METHANE-4,4'-DIISOCYANATE, MDI): 5000.0000

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 No

hazardous substance

Section 311 hazardous No

chemical

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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On inventory (yes/no)* Country(s) or region Inventory name Europe European List of Notified Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No **Philippines** Philippine Inventory of Chemicals and Chemical Substances No (PICCS)

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

Toxic Substances Control Act (TSCA) Inventory

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL 500 LBS

METHANE-4,4'-DIÌSOCYANATE, MDI) (CAS 101-68-8)

POLYMETHYLENE POLYPHENYLENE ISOCYANATE 500 LBS

(CAS 9016-87-9)

United States & Puerto Rico

US - Pennsylvania RTK - Hazardous Substances: Listed substance

METHYLENE BIS(PHENYLISOCYANATE) (DIPHENYL Listed. METHANE-4,4'-DIISOCYANATE, MDI) (CAS 101-68-8)

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.

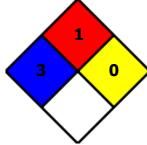
Further information

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

HMIS ratings



NFPA ratings



Material name: AKWASEAL™ SCF MSDS US

No

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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