BUILDING MATERIALS GROUP

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name AKWASEAL™ LV

Revision date 07-11-2007
CAS # Mixture
Company information CETCO

Building Materials Group One North Arlington 1500 West Shure Drive Arlington Heights, IL 60004

USA

Emergency CHEMTREC (800) 424-9300

General information (800) 527-9948

2. Hazards Identification

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

skin contact.

Potential health effects

Routes of exposure Inhalation. Skin contact.

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

SkinSubstance causes moderate skin irritation. May cause sensitization by skin contact.InhalationMay cause irritation of respiratory tract. May cause sensitization by inhalation.IngestionIrritating 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	40 - 60
Non-hazardous and other components below reportable levels		40 - 60

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

Unusual fire & explosion hazards

Containers may explode when heated.

Extinguishing media

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

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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.

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 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. Methods for containment

Methods for cleaning up 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 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.

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

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

Exposure guidelines

Engineering controls

Canada - Alberta - Occupational Exposure Limits - TWAs

POLYMETHYLENE POLYPHENYLENE ISOCYANATE

9016-87-9 0.005 Ppm TWA; 0.07 mg/m3 TWA

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

When workers are facing concentrations above the exposure limit they must use Respiratory protection

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.

9. Physical & Chemical Properties

Color Brown. **Form** Liquid.

Odor Slightly. Musty. Odor threshold Not available Physical state Liquid

Ha Not available

50.0 °F (10 °C) estimated **Melting point**

Freezing point Not available Not available **Boiling point**

Flash point 249.8 °F (121 °C) estimated Closed Cup

Not available **Evaporation rate**

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Flammability limits in air, lower, %

by volume

Not available

Flammability limits in air, upper, %

by volume

Viscosity

Not available

300 - 400 cps

Not available Vapor pressure Not available Vapor density Specific gravity 1.09 - 1.11 Solubility (H2O) Insoluble Octanol/H2O coeff Not available Not available **Auto-ignition temperature Decomposition temperature** Not available

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 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 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

Routes of exposure Inhalation. Skin contact.

Acute effects Acute LD50: 17212 mg/kg estimated, Rat, Oral

> Acute LD50: 17091 mg/kg estimated, Rat, Dermal Acute LC50: 4 mg/l/4h estimated, Rat, Inhalation

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

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

POLYMETHYLENE 9016-87-9

POLYPHENYLENE ISOCYANATE

Inhalation LC50 Rat: 490 mg/m3/4H; Oral LD50 Rat: 49 g/kg; Dermal LD50 Rabbit: >9400

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

prolonged skin contact may cause allergic reactions with susceptible persons.

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

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

mutagenic or genotoxic.

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

respiratory conditions, should not work with isocyanates.

12. Ecological Information

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

concerns.

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

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

POLYMETHYLENE

9016-87-9

1.0 % De minimis concentration (listed under Chemical Category N120, Diisocyanates)

POLYPHENYLENE ISOCYANATE

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes **CERCLA** (Superfund) reportable

quantity

None

Controlled WHMIS status

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 (y	es/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 (CCS)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
A "Yes" indicates that all compone	ents of this product comply with the inventory requirements administered by the governing country(s)	

16. Other Information

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

any product information or product specification.

Health: 3* **HMIS** ratings

Flammability: 1 Physical hazard: 1

NFPA ratings Health: 3

Flammability: 1 Instability: 0

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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 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.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier.

Issue date

07-11-2007