

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.
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 | 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.

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.

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

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.

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

Exposure guidelines

Canada - Alberta - Occupational Exposure Limits - TWAs

| | | |
|---------------|-----------|-------------------------------|
| POLYMETHYLENE | 9016-87-9 | 0.005 Ppm TWA; 0.07 mg/m3 TWA |
| POLYPHENYLENE | | |
| ISOCYANATE | | |

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.

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 |
| pH | Not available |
| Melting point | 50.0 °F (10 °C) estimated |
| Freezing point | Not available |
| Boiling point | Not available |
| Flash point | 249.8 °F (121 °C) estimated Closed Cup |
| Evaporation rate | Not available |

| | |
|--|---------------|
| Flammability limits in air, lower, % by volume | Not available |
| Flammability limits in air, upper, % by volume | Not available |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Specific gravity | 1.09 - 1.11 |
| Solubility (H2O) | Insoluble |
| Octanol/H2O coeff | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | 300 - 400 cps |

10. Chemical Stability & Reactivity Information

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|----------------------------------|---|
| Chemical stability | Stable at normal conditions. No hazards to be especially mentioned. |
| 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) |
| 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 POLYPHENYLENE ISOCYANATE | 9016-87-9 Inhalation LC50 Rat: 490 mg/m3/4H; Oral LD50 Rat: 49 g/kg; Dermal LD50 Rabbit: >9400 mg/kg |
| 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. |
| Mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Further information | Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. |

12. Ecological Information

| | |
|-----------------------|---|
| 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. |

13. Disposal Considerations

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|-----------------------|--|
| 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 chemical Yes

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

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 (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 components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information**Further information**

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

HMIS ratings

Health: 3*
Flammability: 1
Physical hazard: 1

NFPA ratings

Health: 3
Flammability: 1
Instability: 0

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.

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