

AL-8035 - Material Safety Data Sheet



Section 1 - Product and Company Identification

Material Name • Wet/Dry Plastic Roof Cement
Product Code • AL-8035
Product Description • Asphalt Based Roof Cement
Product Use • Roofing and Repair Applications – See product data sheet.
Distributor • TRI-BUILT Roofing Products
15 East Union Avenue
PO Box 511
East Rutherford, NJ 07073
See Website for Customer Service Contact

Telephone

General • 813-248-2101
Emergency • 800-424-9300 - CHEMTREC
Technical • 813-248-2101 - Customer Service

Last Revision Date • 2/25/2013

Section 2 - Hazards Identification

Emergency Overview

CAUTION

Combustible liquid. May be harmful if inhaled. Harmful if swallowed. Causes mild skin irritation. Causes eye irritation.

Prevention *Avoid breathing dust, fume, gas, mist, vapors and/or spray. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of children.*

Response *IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

Storage/Disposal *Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.*



CAUTION! COMBUSTIBLE LIQUID. Central nervous system depressant. Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. May cause skin irritation.

- Physical Form** • Liquid
- Color** • Black
- Odor** • Mild Hydrocarbon.
- Flash Point** • 105°F(40.5°C) CC (Closed Cup)
- UEL** • 6 %
- LEL** • 0.9 %
- OSHA** • Combustible Liquid, Flammable/Combustible - Class II, Toxic, Irritant, Carcinogen
- WHMIS** • Combustible Liquids - B3, Other Toxic Effects - D2A, Other Toxic Effects - D2B
R65, R25, R45
- GHS** • Flammable Liquids - Category 3, Specific Target Organ Toxicity Repeated Exposure - Category 2,
Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A,
Carcinogenicity - Category 1A

NFPA:



Potential Health Effects

Inhalation:

- Acute (Immediate)** • May cause irritation. Excessive breathing of high vapor concentration can cause possible unconsciousness and even asphyxiation.
- Chronic (Delayed)** • Refer to other information found in Section 11-Toxicology.

Skin:

- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • Repeated and prolonged exposure may cause dermatitis.

Eye:

- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.

Ingestion:

- Acute (Immediate)** • May be harmful or fatal if swallowed.
- Chronic (Delayed)** • Repeated and prolonged exposure may be harmful.

- Carcinogenic Effects** • This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects			
	CAS	IARC	NTP
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen
Asphalt	8052-42-4	Group 2B-Possible Carcinogen Group 3-Not Classifiable	Under Consideration
Hydrated aluminium-magnesium silicate	12174-11-7	Group 2B-Possible Carcinogen Group 3-Not Classifiable	Not established

Section 3 - Composition/Information on Ingredients

Hazardous Components				
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive
Asphalt	CAS:8052-42-4 UN:NA1999	40% TO 60%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Inhalation-Rat LC50 • >94.4 mg/m ³	WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; Eye Irrit. 2A; Skin Irrit. 2
Mineral Spirits	CAS:8052-41-3	15% TO 30%		EU DSD/DPD: Carc.Cat.2; R45Muta.Cat.2; R46Xn; R65
Kaolin	CAS:1332-58-7	5% TO 15%		WHMIS: Other Toxic Effects - D2A UN GHS: Eye Irrit. 2A; STOT RE 2
Cellulose	CAS:9004-34-6	6% TO 10%	Ingestion/Oral-Rat LD50 • >5 g/kg Inhalation-Rat LC50 • >5800 mg/m ³ 4 Hour(s) Skin-Rabbit LD50 • >2 g/kg	ANSI: Irrit. WHMIS: Other Toxic Effects - D2B UN GHS: Eye Irrit. 2A; Skin Irrit. 2
Hydrated aluminium-magnesium silicate	CAS:12174-11-7	5% TO 10%		WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; STOT RE 2
1,2,4-Trimethylbenzene	CAS:95-63-6	0.5% TO 1.5%	Ingestion/Oral-Rat LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour(s) Ingestion/Oral-Mouse LD50 • 6900 mg/kg	WHMIS: Comb. Liq. - B3 UN GHS: Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2
Benzene, 1,3,5-trimethyl	CAS:108-67-8 UN:UN2325	0.5% TO 1.5%		WHMIS: UN GHS:
Quartz	CAS:14808-60-7	0.05% TO 1.5%		WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 1A; STOT RE 1

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Get medical attention immediately.
- Skin** • IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** • Call a physician or poison control center immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- Extinguishing Media** • Use CO₂, dry chemical, or foam.
- Unsuitable Extinguishing Media** • Do not use direct stream of water.
- Firefighting Procedures** • Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and can be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

- Unusual Fire and Explosion Hazards**
 - Combustible liquid. May release irritating or toxic gases, fumes, or vapors.
- Hazardous Combustion Products**
 - Carbon monoxide, carbon dioxide, hydrocarbons.
- Protection of Firefighters**
 - Firefighters should wear self-contained breathing apparatus and full protective gear.
- Flash Point**
 - 105°F(40.5°C) CC (Closed Cup)
- Explosion Limits:**
- Upper**
 - 6 %
- Lower**
 - 0.9 %
- Autoignition Temperature**
 - No data available

Section 6 - Accidental Release Measures

- Personal Precautions**
 - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate the area before entry.
- Emergency Procedures**
 - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Stop leak if you can do it without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Keep unauthorized personnel away.
- Environmental Precautions**
 - Prevent entry into waterways, sewers, basements or confined areas.
- Containment/Clean-up Measures**
 - Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Use appropriate Personal Protective Equipment (PPE).
- Prohibited Materials**
 - Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

- Handling**
 - KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Use only with adequate ventilation.
- Storage**
 - Store in a well-ventilated place. Keep container tightly closed. No open flames, no sparks and no smoking.
- Special Packaging Materials**
 - No data available
- Incompatible Materials or Ignition Sources**
 - Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment



- Respiratory**
 - In case of insufficient ventilation, wear suitable respiratory equipment. If listed exposure limits are expected to be exceeded, use approved respiratory protection suitable for the hazard. When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator.
- Eye/Face**
 - Wear ANSI approved safety glasses with side shields or safety goggles.
- Hands**
 - Wear chemical protective gloves made of Nitrile or Neoprene.
- Skin/Body**
 - Wear clothing that covers the skin to prevent skin exposure.
- General Industrial Hygiene**
 - Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after

Considerations

handling. When using do not smoke, eat, or drink.

Engineering

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

Measures/Controls

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Ontario	OSHA	United States - California
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.10 mg/m3 TWA (designated substance regulation, respirable)	Not established	0.3 mg/m3 PEL (total dust); 0.1 mg/m3 PEL (respirable dust)
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	2 mg/m3 PEL (respirable dust, containing no Asbestos fibers, <1% Crystalline silica)
Cellulose (9004-34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	5 mg/m3 PEL (respirable fraction, listed under Particulates not otherwise regulated); 10 mg/m3 PEL (total dust, listed under Particulates not otherwise regulated)
Mineral Spirits (8052-41-3)	TWAs	100 ppm TWA	525 mg/m3 TWA (140°C Flash aliphatic solvent)	500 ppm TWA; 2900 mg/m3 TWA	100 ppm PEL; 525 mg/m3 PEL
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as benzene soluble aerosol)	0.5 mg/m3 TWA (fume, inhalable, as Benzene-soluble aerosol)	Not established	5 mg/m3 PEL (fume)

Exposure Control Notations

ACGIH

- Kaolin (1332-58-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Asphalt (8052-42-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free))
- Quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

Section 9 - Physical and Chemical Properties

Material Description

Physical Form	Liquid	Appearance/Description	Thick black semi-liquid.
Color	Black	Odor	Mild Hydrocarbon.
		Physical and Chemical Properties	Semi-liquid

General Properties

Boiling Point	310 to 400 F(154.4444 to 204.4444 C)	Specific Gravity/Relative Density	1.065 Water=1
Density	8.87 lbs/gal		

Volatility

Vapor Pressure	2 mmHg (torr) @ 68 F(20 C)	Vapor Density	1 Air=1
VOC (Vol.)	< 250 g/L		

Flammability

Flash Point	105°F(40.5°C) CC (Closed Cup)	UEL	6 %
LEL	.9 %		

Section 10 - Stability and Reactivity

Stability

- Stable under normal temperatures and pressures.

Hazardous Polymerization

- Hazardous polymerization not indicated.

Conditions to Avoid

- Avoid contact with strong oxidizing agents and flame.

Incompatible Materials

- Strong oxidizers.

Hazardous Decomposition Products • Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	CAS	Data
Asphalt (40% TO 60%)	8052-42-4	Acute Toxicity: orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3
Cellulose (6% TO 10%)	9004-34-6	Acute Toxicity: orl-rat LD50:>5 gm/kg
1,2,4-Trimethylbenzene (0.5% TO 1.5%)	95-63-6	Acute Toxicity: orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H

Other Component Information

- IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level exposure to this product as a dust or aerosol mist. This product contains petroleum asphalt. Petroleum asphalt is not listed as carcinogen by OSHA or NTP.

The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breath fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogen in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence tumor formation associated with localized skin irritation. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

Key to abbreviations

TC = Toxic Concentration

TD = Toxic Dose

LD = Lethal Dose

Section 12 - Ecological Information

Ecological Fate

- No data available.

Persistence/Degradability

- No data available.

Bioaccumulation Potential

- No data available.

Mobility in Soil

- No data available.

Section 13 - Disposal Considerations

Product • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT: Not restricted if shipped in containers <450L (119 gallons) Restricted if shipped in containers >450L (119 gallons).

TDG: Canada Transportation of Dangerous Goods: Tars, Liquids; UN1999; Hazard Class: 3; Packing Group: III

IATA - International Air Transportation Association - TARS, LIQUID; UN1999; Hazard Class: 3; Packing Group: III.

Section 15 - Regulatory Information

SARA Hazard Classifications

- Acute, Chronic

Risk & Safety Phrases • California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

Component	CAS	MA	MN	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes	Yes
Mineral Spirits	8052-41-3	Yes	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes	Yes
Cellulose	9004-34-6	Yes	Yes	Yes	Yes
Hydrated aluminium-magnesium silicate	12174-11-7	No	No	No	No
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No	No
Quartz	14808-60-7	Yes	Yes	Yes	Yes

Inventory					
Component	CAS	EU EINECS		TSCA	
Asphalt	8052-42-4	Yes		Yes	
Mineral Spirits	8052-41-3	Yes		Yes	
Kaolin	1332-58-7	Yes		Yes	
Cellulose	9004-34-6	Yes		Yes	
1,2,4-Trimethylbenzene	95-63-6	Yes		Yes	
Benzene, 1,3,5-trimethyl	108-67-8	Yes		Yes	
Quartz	14808-60-7	Yes		Yes	

Canada

Labor

Canada - WHMIS - Classifications of Substances

•Kaolin	1332-58-7	5% TO 15%	D2A
•Cellulose	9004-34-6	6% TO 10%	Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
•Asphalt	8052-42-4	40% TO 60%	Not Listed
•1,2,4-Trimethylbenzene	95-63-6	0.5% TO 1.5%	B3
•Quartz	14808-60-7	0.05% TO 1.5%	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
•Mineral Spirits	8052-41-3	15% TO 30%	B3, D2B
•Benzene, 1,3,5-trimethyl	108-67-8	0.5% TO 1.5%	B3
•Hydrated aluminium-magnesium silicate	12174-11-7	5% TO 10%	Not Listed

United States

Environment

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

•Kaolin	1332-58-7	5% TO 15%	Not Listed
•Cellulose	9004-34-6	6% TO 10%	Not Listed
•Asphalt	8052-42-4	40% TO 60%	Not Listed
•1,2,4-Trimethylbenzene	95-63-6	0.5% TO 1.5%	1.0 % de minimis concentration
•Quartz	14808-60-7	0.05% TO 1.5%	Not Listed
•Mineral Spirits	8052-41-3	15% TO 30%	Not Listed
•Benzene, 1,3,5-trimethyl	108-67-8	0.5% TO 1.5%	Not Listed
•Hydrated aluminium-magnesium silicate	12174-11-7	5% TO 10%	Not Listed

Section 16 - Other Information

Prepared By

- GG Inc.

Preparation Date

- 2/25/2013

Last Revision Date

- 2/25/2013

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