

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/13/2015

Reviewed on 08/12/2015

* 1 Identification

• **Product identifier**

• **Trade name: Cold Mix Asphalt**

• **Relevant identified uses of the substance or mixture and uses advised against**

Cold mix asphalt is used for repairing asphalt pavement, driveways, parking lots and other surface, base, or sub-base pavement applications.

NOTE: This SDS covers many types of cold mix asphalt. Individual composition of hazardous constituents will vary between types of asphalt.

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Edward C. Levy Company

9300 Dix Avenue

Dearborn, Michigan 48120

Phone - (313) 429-2200

Fax - (219) 465-7313

www.edwclevy.com

• **Emergency telephone number:**

John J. Yzenas Jr.

Director of Technical Services

Phone - (219) 741-6098

jyzenas@levyco.net

* 2 Hazard(s) identification

• **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

• **Label elements**

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS07



GHS08

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Trade name: Cold Mix Asphalt

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 - Aggregate
 - Bitumen
 - Fuel oil, No 2
 - Kerosene (petroleum)
 - Quartz (SiO₂)
- **Hazard statements**
 - Harmful if swallowed or if inhaled.
 - Causes skin and eye irritation.
 - May cause cancer.
- **Precautionary statements**
 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 - Use only outdoors or in a well-ventilated area.
 - Wear protective gloves.
 - Wash thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If swallowed: Call a poison center/doctor if you feel unwell.
 - Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Call a poison center/doctor if you feel unwell.
 - IF exposed or concerned: Get medical advice/attention.
 - If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.
 - Rinse mouth.
 - If on skin: Wash with plenty of water.
 - Take off contaminated clothing and wash it before reuse.
 - Store in a well-ventilated place.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Unknown acute toxicity:**
 - 9.2 percent of the mixture consists of ingredient(s) of unknown toxicity.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0
- **HMS-ratings (scale 0 - 4)**

HEALTH	*2	Health = *2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0
- **Hazard(s) not otherwise classified (HNOC):** None known

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous Components:**

	Aggregate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	90-95%
CAS: 8052-42-4 RTECS: CI 9900000	Bitumen ⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	<10%
CAS: 68476-30-2	Fuel oil, No 2 ⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351	0-5%
CAS: 8008-20-6	Kerosene (petroleum) ⚠ Carc. 2, H351; Asp. Tox. 1, H304; Flam. Liq. 4, H227	0-5%
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	0-1%

- **Additional information:**

Cold mix asphalt is a mixture of gravel or rock, sand and asphalt cement. It may contain small amounts of asphalt modifiers (e.g. anti-stripping agents, hydrated lime), fly ash, slag, fibers (synthetic or organic), color pigment and other recycled material (e.g. ceramics, plastic, glass, etc.).

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Move person to fresh air. Seek medical attention for discomfort or of coughing or other symptoms persist.

- **After skin contact:**

Wash with cool water and a pH neutral soap or a mild skin detergent. Do not use solvents or thinners to remove product from skin. Seek medical attention for rash, irritation and dermatitis.

- **After eye contact:**

For contact with cold patch asphalt, rinse eyes thoroughly with water for at least 15 minutes. Seek medical attention. For contact with hot product, flush with large amounts of water for at least 15 minutes. Immediately call a physician.

- **After swallowing:**

Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:**

Individuals with preexisting skin conditions can be aggravated by exposure.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
If heated, hot product will cause severe thermal burns. When heated, this product may release toxic hydrogen sulfide gas, carbon monoxide and carbon dioxide.
- **Advice for firefighters**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
- **Additional information** Combustible solid.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Proper protective equipment should be used.
- **Environmental precautions:**
Do not wash cold patch asphalt down sewage and drainage systems or into bodies of water (e.g. lakes, streams or water course).
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Use a shovel to scrape up product and place into suitable containers for recovery or disposal.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Cold patch asphalt is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures. Do not stand on stock piles of cold patch asphalt as they may be unstable.

Avoid contact with the skin, eyes and clothing. Use additional caution when handling hot product. Do not let hot product come in contact with the skin. Maintain employee exposure levels below the established regulatory limits. Ensure adequate ventilation and use all appropriate measures of dust control or suppression. Use all appropriate personal protective equipment as outlined in section 8.

Remove and launder all clothing that is soiled with asphalt. Thoroughly wash hands and exposed skin after exposure to cold patch asphalt.
- **Information about protection against explosions and fires:**
Store away from heat, all ignition sources and open flames.
- **Conditions for safe storage, including any incompatibilities**
Strong oxidizers, heat, ignition sources and flames.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area.
- **Information about storage in one common storage facility:**
Do not store with strong oxidizers or other sources of ignition.

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- **Further information about storage conditions:** None.
- **Specific end use(s)**
Cutting, crushing or grinding hardened asphalt or other silica-bearing materials will release respirable crystalline silica.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

• Components with occupational exposure limits:

8052-42-4 Bitumen

REL	Ceiling limit value: 5* mg/m ³ *15-min; See Pocket Guide App. A
TLV	Long-term value: 0.5* mg/m ³ *inh. fraction; as benzene-soluble aerosol; BEIp

68476-30-2 Fuel oil, No 2

TLV	Long-term value: 100* mg/m ³ as total hydrocarbons; Skin;*inh. fraction + vapor
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8008-20-6 Kerosene (petroleum)

REL	Long-term value: 100 mg/m ³ Kerosene only
TLV	Long-term value: 200 mg/m ³ as total hydrocarbon vapor; Skin; P

14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

• Ingredients with biological limit values:

8052-42-4 Bitumen

BEI	- urine end of shift at end of workweek 1-Hydroxypyrene with hydrolysis (non-quantitative)
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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• **Breathing equipment:**

Under ordinary conditions, no respirator is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust or fumes above the exposure limits as listed above.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

• **Material of gloves**

Wear leather or cloth work gloves to prevent skin contact and insulated gloves when handling hot product.

• **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• **Eye protection:**

Wear ANSI approved glasses, safety glasses or face shield when handling cold patch asphalt to prevent contact with the eyes.

• **Body protection:**

Wear protective work clothing and ANSI approved hard-toed safety boots when handling cold patched asphalt.

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Granular solid

Color: Black

• **Odor:** Slight petroleum

• **Odor threshold:** Not determined.

• **pH-value:** Not applicable.

• **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

• **Flash point:** Not applicable.

• **Flammability (solid, gaseous):** Not determined.

• **Ignition temperature:**

Decomposition temperature: Not determined.

• **Auto igniting:** Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

• **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

• **Vapor pressure:** Not applicable.

• **Density:**

Relative density Not determined.

Vapor density Not applicable.

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- Evaporation rate** Not applicable.
- **Solubility in / Miscibility with Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
Thermal decomposition will result in toxic gases like carbon monoxide, carbon dioxide and hydrogen sulfide.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Cold patch asphalt is incompatible with strong acids or bases and oxidizing agents such as nitrates, chlorates and peroxides.
- **Incompatible materials:** Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire.
- **Hazardous decomposition products:**
When heated, may liberate hydrogen sulfide and other various hydrocarbons.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **Skin:** Irritant to skin and mucous membranes.
- **Eye:** Irritating effect.
Causes serious eye irritation.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful / Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

8052-42-4	Bitumen	2B
68476-30-2	Fuel oil, No 2	2B
8008-20-6	Kerosene (petroleum)	2B
14808-60-7	Quartz (SiO ₂)	1

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

• **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

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• TSCA (Toxic Substances Control Act):		
8052-42-4	Bitumen	
68476-30-2	Fuel oil, No 2	
8008-20-6	Kerosine (petroleum)	
14808-60-7	Quartz (SiO ₂)	
• California Proposition 65		
• Chemicals known to cause cancer:		
14808-60-7	Quartz (SiO ₂)	
• Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
• Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
• Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
• Carcinogenic categories		
• EPA (Environmental Protection Agency)		
None of the ingredients are listed.		
• TLV (Threshold Limit Value established by ACGIH)		
8052-42-4	Bitumen	A4
68476-30-2	Fuel oil, No 2	A3
8008-20-6	Kerosine (petroleum)	A3
14808-60-7	Quartz (SiO ₂)	A2
• NIOSH-Ca (National Institute for Occupational Safety and Health)		
8052-42-4	Bitumen	
14808-60-7	Quartz (SiO ₂)	

• GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



GHS07 GHS08

• Signal word Danger

• Hazard-determining components of labeling:

Aggregate
Bitumen
Fuel oil, No 2
Kerosene (petroleum)
Quartz (SiO₂)

• Hazard statements

Harmful if swallowed or if inhaled.
Causes skin and eye irritation.
May cause cancer.

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• **Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Rinse mouth.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store in a well-ventilated place.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

• **State Right to Know**

	Aggregate	90-95%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
CAS: 8052-42-4 RTECS: CI 9900000	Bitumen	<10%
	⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	
CAS: 68476-30-2	Fuel oil, No 2	0-5%
	⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351	
CAS: 8008-20-6	Kerosene (petroleum)	0-5%
	⚠ Carc. 2, H351; Asp. Tox. 1, H304; Flam. Liq. 4, H227	
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂)	0-1%
	⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	

All ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of last revision** 08/12/2015 Rev-1

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• **Abbreviations and acronyms:**

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 - ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 3: Flammable liquids, Hazard Category 3
 - Flam. Liq. 4: Flammable liquids, Hazard Category 4
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 - Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
 - Carc. 1A: Carcinogenicity, Hazard Category 1A
 - Carc. 2: Carcinogenicity, Hazard Category 2
 - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 - STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
 - Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- *** Data compared to the previous version altered. Previous version 07/13/2015**