# **SAFETY DATA SHEET**

OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product identifier Cold Mix Asphalt

Chemical Name Mixture CAS No. Mixture

Trade Name(s) Cold Mix Asphalt

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

Identified Use(s) Repairing asphalt pavement, driveways, parking lots and other surface, base or sub-base

pavement applications.

Uses Advised Against None

Details of the supplier of the safety data sheet

Manufacturer information:

Company: APAC - Kansas Inc., Shears Division

Address: 1600 N. Lorraine, STE One

Telephone: (620) 662-3307

Website: http://www.apac-kansas.com/

Emergency phone number: Alex Blecha (620) 200-6928

## **SECTION 2: HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) / GHS Classification Not classified as dangerous for supply/use.

Label elements

Hazard Symbol None
Signal Word(s) None
Hazard Statement(s) None
Precautionary Statement(s) None

Other hazards May cause eye irritation.

Fumes may cause upper respiratory irritation (nose & throat).

Skin contact may increase susceptibility to sunburn.

Poisonous hydrogen sulfide gas can accumulate in the head-space of

containers of certain asphalt products.

Mechanical disruption (e.g., milling, cutting, chipping) of cured asphalt pavement may release crystalline silica dust from the aggregate.

Additional Information Avoid breathing dust/fume/gas/mist/vapors/spray.

As necessary, Wear protective gloves/protective clothing/eye

protection/face protection.

Wash hands and exposed skin after use.

Revision: March, 27 2017 Page: 1/6

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Composition/information on ingredients        | % wt.     | CAS No.    |
|---|-----------|------------|
| Aggregate (crushed stone, sand, gravel, slag) | 88 - 92   | Various    |
| Petroleum asphalt / bitumen^                  | 4.1 - 8.0 | 8052-42-4  |
| Water   | 1.7 - 6.0 | 7732-18-5  |
| Quartz  | 0.1 – 2.9 | 14808-60-7 |

<sup>^</sup>Contains: <0.05% of 3 - 7 ring Polycyclic Aromatic Hydrocarbons (PAHs).

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. Please see Section 8 of SDS for more details.

- Contains: <0.1% airborne crystalline silica (inherent in aggregate) and <0.1% hydrogen sulfide.
- Hydrogen sulfide gas can accumulate in the head space of containers of certain asphalt products.
- Heated product releases asphalt fume.

#### Additional Information - None

## **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Inhalation Not normally required. Move person to fresh air. Apply artificial respiration if

necessary. If symptoms persist, obtain medical attention.

Skin Contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Exposure to sunlight after or during contact with this

material may produce a skin reaction. The effect on the skin is similar in appearance to sunburn and is temporary. Repeated or prolonged contact with this material in sunlight may cause more serious skin disorders. Additional symptoms of skin contact may include: abnormal coloring of the skin. This

material is unlikely to pass into the body through the skin.

Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open. Can

cause eye irritation. Symptoms include stinging, tearing, redness, and

swelling of the eyes.

Ingestion Not normally required. Do not induce vomiting. Do not give anything by mouth

to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both

acute and delayed

None known

Indication of any immediate medical attention

and special treatment needed

None known

Revision: March, 27 2017 Page: 2/6

## **SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media** 

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or waterspray.

-Unsuitable Extinguishing Media None anticipated.

Special hazards arising from the substance or

mixture

Combustion causes toxic fumes. Combustion products: Carbonmonoxide,

Carbon dioxide, Nitrogen oxides, Sulfur oxides

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should

be worn in fire conditions.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

**Environmental precautions** 

Avoid contact with skin and eyes.

Do not wash cold patch asphalt down sewage and

drainage systems or into bodies of water.

Methods and material for containment and cleaning up

Reference to other sections Additional Information Dispose of contaminated material as a solid waste.

None None.

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at temperatures not exceeding the product's flash point.

-Incompatible materials Strong oxidizing agents, heat and open flames.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

**Occupational Exposure Limits** 

|   |           | (8hr TWA)                         |                          | (STEL)         |             |             |
|---|-----------|-----------------------------------|--------------------------|----------------|-------------|-------------|
| SUBSTANCE.                                  | CAS No.   | PEL (OSHA) *                      | TLV (ACGIH)              | PEL (OSHA)     | TLV (ACGIH) | Note:       |
| Asphalt fume                                |           |                                   | 0.5 mg/m3 <sup>(l)</sup> |                |             | See below   |
| Crystalline Silica (respirable particulate) |           | 10 mg/m³<br>%SiO <sub>2</sub> + 2 | 0.025 mg/m3 ^            |                |             | See below   |
| Hydrogen sulfide                            | 7783-06-4 |                                   | 1 ppm                    | 20 ppm ceiling | 5 ppm       | 50 ppm peak |

<sup>(</sup>I) Inhalable benzene-soluble fraction; ^Suspected Human Carcinogen; \*Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method NIOSH 5042 (Asphalt Fume), NIOSH 7500 (Crystalline Silica),

Electrochemical sensor (hydrogen sulfide).

**Exposure controls** 

Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Personal protection equipment

Eye/face protection The following to be used as necessary: Safety Glasses



Revision: March, 27 2017 Page: 3/6

Skin protection (Hand protection/Other)

The following to be used as necessary: Leather or thick textilegloves.



Respiratory protection

(i)

In case of inadequate ventilation wear respiratory protection. Use NIOSH approved respiratory protection. Air-purifying respirator with combination organic vapor cartridge / particulate filter may be sufficient. Check with protective equipment manufacturer's data.

Thermal hazards

**Environmental Exposure Controls** 

Use gloves with insulation for thermal protection, when needed. Do not discharge waste and/or cleaning water via public sewer

system. Ensure waste is collected and contained.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance Solid

Color. Dark brown / Black
Odor Asphalt / Bitumen
Odor Threshold (ppm) Not available.

pH (Value)

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Not available.

Not available.

Not available.

Not available.

Not available.

Flash Point (°C) > 232 (> 450 °F)
Evaporation Rate Not available.
Flammability (solid, gas) Not applicable.
Explosive Limit Ranges Not applicable.
Vapor pressure (Pascal) Not determined.
Vapor Density (Air=1) Not determined.
Density (g/ml) 2.2 - 2.7

Density (g/ml) 2.2 - 2.7

Solubility (Water) Negligible
Solubility (Other) Not known

Partition Coefficient (n-Octanol/water) Not available.

Auto Ignition Point (°C) Not available.

Decomposition Temperature (°C)
Kinematic Viscosity (cSt) @ 40°C
Explosive properties
Oxidizing properties

Other information

Not available.
Not explosive.
Not oxidizing.
Not available.

## **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions May react violently with: Strong oxidizing agents

Conditions to avoid Incompatible materials

Incompatible materials Oxidizers

**Hazardous decomposition product(s)**Combustion causes toxic fumes. Combustion products: Carbon monoxide,

Carbon dioxide, Nitrogen oxides, Sulfur oxides

Revision: March, 27 2017 Page: 4/6

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Acute toxicity LD50 (rat): >5000 mg/kg bw

LD50 (dermal): >2000 mg/kg

bw

LC50 (inhalation, fume): >94.4 mg/m<sup>3</sup>

Irritation/Corrosivity May cause irritation to skin, eyes and respiratory system.

Sensitization Not to be expected

Repeated dose toxicity NOAEL(rat): 28

mg/m3 LOAEL (rat):

149 mg/m<sup>3</sup>

Carcinogenicity Not to be expected at typical road paving temperatures.

| NTP | IARC | ACGIH | OSHA |
|-----|------|-------|------|
| No. | 2B*  | No.   | No.  |

Mutagenicity Not to be expected.

Reproductive toxicity Not to be expected.

Other information

\* IARC (2013, volume 103) identifies that "occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (Group 2B)." However, classification as a carcinogen under OSHA 29 CFR 1910.1200 is not warranted given the absence of positive cancer findings in human epidemiological studies and in cancer studies with laboratory animals when exposed dermally or by inhalation to asphalt products or fume condensates that are typical of road paving applications. IARC (2013, volume 103) also identifies that "occupational exposures to oxidized bitumens and their emissions during roofing are probably carcinogenic to humans (Group 2A)." Roofing shingle are sometimes recycled into road paving asphalt mix. Emissions from oxidized bitumen, e.g., from shingles, at road paving temperatures are not expected to be qualitatively different than emissions from straight-run bitumens, and therefore would not warrant a carcinogen classification under OSHA 29 CFR 1910.1200.

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Short term LL50 (48 hour): >1000 mg/l (Fish)

LL50 (48 hour): >1000 mg/L (Aquatic Invertebrates) EL50 (48 hour): >1000 mg/L (Aquatic Plants)

Long Term No data

Persistence and degradability The product is poorly biodegradable.

Bioaccumulative potential The product has low potential for bioaccumulation.

Mobility in soilThe product has low mobility in soil.Results of PBT and vPvB assessmentNot classified as PBT or vPvB.

Other adverse effects None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

Additional Information None known.

## **SECTION 14: TRANSPORT INFORMATION**

Ground or Water Domestic Voyage (DOT): Not regulated when transported below 240°C (464 °F).

Revision: March, 27 2017 Page: 5/6

## **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None          |         |              |             |
|               |         |              |             |

#### SARA 311/312 - Hazard Categories: None

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

## SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| None          |         |              |

#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | TPQ (pounds) |
|---------------|---------|--------------|--------------|
| None          |         |              |              |

## **SECTION 16: OTHER INFORMATION**

#### **Additional Information**

The following sections contain revisions or new statements: 1-16.

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Revision: March, 27 2017 Page: 6/6