



**MATERIAL SAFETY DATA SHEET**

**MSDS No. CRF035**

Date of Preparation: **December 7, 2010**

Revision No. 1

**Section 1 – Chemical Product and Company Information**

<b>Product/Chemical Name:</b>	Cold Pour Crack Sealant
<b>Chemical Formula:</b>	Mixture
<b>CAS Number:</b>	Mixture
<b>Other Designations:</b>	Bituminous Emulsion
<b>General Use:</b>	Asphalt Emulsion Pavement Sealer
<b>Manufacturer:</b>	CRAFCO, Inc., 420 North Roosevelt Avenue, Chandler, AZ 85226; Phone 602-276-0406; Hours of Operation 7:30 am – 4:30 pm; ERGON 24 Hour Emergency Phone Number 1-800-222-7122; CHEMTREC 1-800-424-9300.

**Section 2 – Composition / Information on Ingredients**

Ingredient Name	CAS Number	% Vol
Asphalt	8052-42-4	30-45
Mineral Filler	Mixture	30-35
Water	7732-18-5	20-25
Acrylic	Mixture	4-10
Clay	1332-58-7	1-5

INGREDIENT	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Asphalt (fumes)	None estab.	None estab.	0.5 mg/m <sup>3</sup> (inhalable fraction, as benzene-soluble aerosol)	None estab.	None estab.	5 mg/m <sup>3</sup> (ceiling)	None estab.
Mineral Filler (as SiO <sub>2</sub> )	10 mg/m <sup>3</sup> (%SiO <sub>2</sub> +2) (respirable, Table Z-3)	None estab.	0.025 mg/m <sup>3</sup> (respirable)	None estab.	0.05 mg/m <sup>3</sup> (respirable)	None estab.	50 mg/m <sup>3</sup>
Water	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Acrylic	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Clay	15 mg/m <sup>3</sup> (total particulate), and 5 mg/m <sup>3</sup> (respirable)	None estab.	2 mg/m <sup>3</sup> (respirable particulate)	None estab.	10 mg/m <sup>3</sup> (total particulate), and 5 mg/m <sup>3</sup> (respirable)	None estab.	None estab.

**Section 3 – Hazards Information**

**EMERGENCY OVERVIEW**

**POTENTIAL HEALTH EFFECTS**

**Primary Entry Routes:** Inhalation and absorption.

**Target Organs:** Mucous membranes, skin, and digestive tract.

**Acute Effects:** Exposure to product fumes, vapors, or mists in concentrations above the PEL/TLV may lead to systemic symptoms dizziness, headaches, and nausea.

**Inhalation:** Exposure to product fumes, vapor and dust may result in irritation to the respiratory tract.

**Eye:** Exposure to product fumes, vapors or mists may cause irritation. Liquid exposure may cause

HMIS
H-1
F-1
R-0
PPE*
* Sec.8

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irritation. Direct contact with hot material will cause thermal burns and possible blindness.

**Skin:** Skin contact may cause irritation which when accentuated by sunlight may result in a phototoxic reaction.

**Ingestion:** None expected. Ingestion of hot material will cause thermal burn. Ingestion may cause irritation of the gastrointestinal tract followed by one or more of the following: nausea, vomiting, blockage, and diarrhea.

**Carcinogenicity:** SiO<sub>2</sub> is classified as a carcinogen when in respirable dust form.

**Medical Conditions Aggravated by Long-Term Exposure:** Dermatitis

**Chronic Effects:** Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis. Evidence from animal studies suggest that asphalt left on the skin for long periods of time may result in local carcinomas, but there have been no reports of such effects on human skin that can be attributed to asphalt alone.

**Section 4 – First Aid Measures**

**Inhalation:** This material is not expected to be an immediate inhalation hazard, no first aid procedures required.

**Eye Contact:** Flush thoroughly with water for at least 15 minutes. If burning persists seek medical attention.

**Skin Contact:** Wash thoroughly with soap and water. Do not use harsh solvents to remove asphalt from skin. Lotion or hand cream may aid in the removal of asphalt. Cover with a sterile dressing. Seek medical attention if needed.

**Ingestion:** Do not induce vomiting and seek medical help.

**Section 5 – Fire Fighting Measures**

**Flash Point:** > 212°F

**Flash Point Method:** Unknown

**Auto Ignition Temperature:** >700°F

**LEL:** Not determined.

**UEL:** Not determined.

**Flammability Classification:** Class IIIB

**Extinguishing Media:** CO<sub>2</sub>, dry chemical foam and water spray.

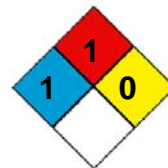
**Unusual Fire or Explosion Hazards:** Material is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point. Closed containers may explode when exposed to extreme heat. Water spray may cause frothing.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, sulfur dioxide, hydrogen sulfide.

**Fire-Fighting Instructions:** Use of foam or water may cause frothing. Do not release runoff from fire control methods to sewers or waterways. Use a water spray to cool fire-exposed containers.

**Fire-Fighting Equipment:** Use self-contained breathing apparatus.

**NFPA**



**Section 6 – Accidental Release Matters**

**Spill/Leak Procedures:** Stop spill at source if possible without hazard. Remove sources of heat or ignition. Avoid breathing vapors, mists or fumes. Avoid skin contact. Cleanup personnel should be provided with appropriate clothing. Contain spilled material by diking/berming with absorbent solids such as sand or soil. Do not release runoff into sewers or waterways. In cases involving release to the environment such as a waterway of the United States, contact the National Response Center at 1-800-424-8802. In Canada, report releases to the appropriate Provincial authorities.



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### Section 7 – Handling and Storage

**Handling Precautions:** Unheated material presents no known hazards. Avoid prolonged or repeated contact with the skin or breathing fumes, vapors or mists. Wear appropriate protective equipment when performing maintenance on contaminated equipment. Exercise good personal hygiene including the removal of contaminated clothing and prompt washing with soap and water. Do not sand final product once hardened: contains SiO<sub>2</sub>.

**Storage Requirements:** Ground and bond all transfer and storage equipment. Store in properly closed, labeled containers away from sources of ignition. Store containers in a well ventilated, clean and dry area.

**Regulatory Requirements:** None known.

### Section 8 – Exposure Controls / Personal Protection

**Engineering Controls:** Keep containers closed when not in use. Do not store near heat, sparks, flame, or strong oxidants.

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH -approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. **Use self-contained, positive-pressure, breathing apparatus (SCBA) when this product is used in a confined or enclosed space and exposure limits are exceeded or hydrogen sulfide concentration is unknown or exceeds 20 ppm. Organic vapor respirators may be used with good ventilation when organic vapors are less than 1000 ppm or ten times permissible exposure limit, whichever is less. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA until it is determined that a hazardous atmosphere and/or oxygen deficient atmosphere is NOT PRESENT. Warning! air-purifying respirators do not protect workers in oxygen-deficient atmospheres.** If respirators are used, OSHA requires a written respiratory protection program that includes: procedures for selecting respirators; medical evaluation; fit testing; use in routine and emergency situations; cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators; adequate air quality, quantity and flow; training in respiratory hazards; training in use of respirators; and an evaluation of the effectiveness of the respiratory program.

**Protective Clothing/Equipment:** Wear protective gloves, boots, aprons, and gauntlets as need to prevent prolonged or repeated skin contact. Goggles and face shields should be used in areas where splashing may occur. Wear protective eyeglasses or safety goggles per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, or smoking.

### Section 9 – Physical and Chemical Properties

**Physical State:** liquid

**Appearance and Odor:** Dark Brown/Petroleum

**Odor Threshold:** Not available

**Vapor Pressure:** Not available.

**Vapor Density (Air = 1):** Not available.

**Water Solubility:** Soluble

**Other Solubilities:** No data.

**Boiling Point:** 212° F

**Freezing/Melting Point:** Not available.

**Viscosity:** Not available.



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**Formula Weight:** Not available.

**Refractive Index:** No data.

**Surface Tension:** No data.

**Density:** Not available.

**Specific Gravity (H<sub>2</sub>O = 1):** 1.3

**% Volatile:** <40%

**pH:** Not available.

**Evaporation Rate:** Not available.

### Section 10 – Stability and Reactivity

**Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Will not occur.

**Chemical Incompatibilities:** Strong oxidizing agents such as chlorates, nitrates and peroxides.

**Conditions to Avoid:** None known.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, hydrogen sulfide, aromatics. Irritating and/or toxic fumes may be released if burned.

### Section 11 – Toxicological Information

**Eye Effects:** Not known.

**Skin Effects:** Not known.

**Acute Inhalation Effects:** Not known.

**Acute Oral Effects:** Asphalt Cement - Rat, oral, LD<sub>50</sub>: 5-15 mg/kg

**Carcinogenicity:** There is inadequate evidence that bitumens alone are carcinogenic to humans. SiO<sub>2</sub> is classified as a carcinogen when in respirable form.

**Mutagenicity:** No data.

**Teratogenicity:** No data.

**Chronic Effects:** No data.

### Section 12 – Ecological Information

**Ecotoxicity:** No data

**Environmental Fate:**

**Environmental Transport:** No data.

**Environmental Degradation:** No data.

**Soil Absorption/Mobility:** No data.

### Section 13 – Disposal Considerations

This product, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261). Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.

The transportation, storage, treatment, and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional considerations, as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state and local regulations.

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Recommend using a non-hazardous solvent to remove the product. Follow federal, state and local regulations for the disposal



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of the waste material, regardless of its classification.

**Section 14 – Transport Information**

**Ambient Temperature Material (below 212F)**

<b>Shipping Name:</b> Not Regulated	<b>Packaging Authorizations:</b>	<b>Quantity Limitations:</b>
<b>Shipping Symbols:</b> NA	a) Exceptions: NA	a) Passenger, Aircraft, or Railcar: NA
<b>Hazard Class:</b> NA	b) Non-bulk Packaging: NA	b) Cargo Aircraft Only: NA
<b>ID No.:</b> NA	c) Bulk Packaging: NA	<b>Vessel Stowage Requirements:</b>
<b>Label:</b> NA		a) Vessel Stowage: NA
<b>Special Provisions (172.102):</b> NA		b) Other: NA

**Hot Material (above 212°F)**

<b>Shipping Name:</b> Elevated Temperature Liquid N.O.S	<b>Packaging Authorizations:</b>	<b>Quantity Limitations:</b>
	a) Exceptions: NA	a) Passenger, Aircraft, or Railcar: Forbidden
<b>Shipping Symbols:</b> "HOT" 3257	b) Non-bulk Packaging: NA	b) Cargo Aircraft Only: Forbidden
<b>Hazard Class:</b> 9	c) Bulk Packaging: 173.247	<b>Vessel Stowage Requirements:</b>
<b>ID No.:</b> UN3257		a) Vessel Stowage: A
<b>Packing Group:</b> PG III		b) Other: 85
<b>Label:</b> Class 9A		
<b>Special Provisions (172.102):</b> IB1, T3, TP3, TP29		

**Section 15 – Regulatory Information**

**EPA Regulations:** This product and/or its components are listed on the TSCA Chemical Inventory. Additional reporting (Tier II, Tier I, or Chemical Release Reporting) may be required.

**RCRA**  
 RCRA Hazardous Waste Number: Not listed.  
 RCRA Hazardous Waste Classification (40 CFR 261): This material should not be hazardous due to characteristics.

**CERCLA**  
 CERCLA: Not listed.  
 CERCLA Reportable Quantity (RQ): This material, in its solid form, is not a listed hazardous substance and does not have a reportable quantity. However, if spilled in liquid form into waters of the U.S., it may be reportable under the Clean Water Act.

**SARA**  
 SARA 311/312 Codes: Fire–No, Pressure–No, Reactivity–No, Immediate (acute)–Yes, Delayed (chronic)–Yes.  
 SARA Toxic Chemical: Not listed.  
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

**OSHA Regulations**  
 Hazard Communication Standard (29 CFR 1910.1200): Yes  
 Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): See Table in Section 2.  
 OSHA Specifically Regulated Substance: No



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**State Regulations:** Listed in state hazardous substance list for CA and MN as Asphalt (petroleum fumes; FL, MA, NJ, as Asphalt fumes; and PA as Asphalt. California Prop 65: This product contains a chemical know to the State of California to cause cancer and birth defects or other reproductive harm. (SiO<sub>2</sub>( respirable only))

### Section 16 – Other Information

**Revision Notes:**

**Additional Hazard Rating Systems:**

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