

Material Safety Data Sheet

Section I PRODUCT INFORMATION

Manufacturer: Y.K. Products, LLC
3520 109th St. SW
Building 124
Everett, WA 98204

For Information call: 425-244-5000
Emergency Telephone: 425-244-5000

PRODUCT: U.S. Cold Patch Chemical Family: Petroleum hydrocarbon /aggregate mixture

Product Use: Asphalt/concrete road repair material CAS Registry No: Not applicable to mixtures

Section II COMPOSITION

Component (common name)	Typical content	Chemical name (common)	Occupational exposure limits*
Stone/Aggregate	40-50 %	Aggregate	Not applicable
Sand	35-45 %	Silicates	15 mg/M ³ as TWA ₈ (OSHA)
Asphalt (petroleum)	03-10 %	Petroleum asphalt (as fumes)	5 mg/M ³ as TWA ₈ (OSHA)
Limestone powder	03-10 %	Calcium carbonate	15 mg/M ³ as TWA ₈ (OSHA)
Hydrocarbon oil	<02 %	Petroleum distillates	2,000 mg/M ³ as TWA ₈ (OSHA)

*The listed chemical components and associated occupational exposure limit should be utilized as guidelines only. Specific applications and/or batches may include additional trace materials (due to the recycled component) that are not listed here. However, the cohesive nature and low volatility of the product beneficially limits potential occupational inhalation exposure to listed and/or additional trace components. Inherent in this product formulation is the nature of airborne particulate components to agglomerate which significantly reduces its ability to create respirable fraction particulates.

Section III PHYSICAL PROPERTIES

Physical description: Product is virtually odorless, black in color and consists of a heavy black sand type mixture blended with small stones and gravel.

Testing procedure(s):	JIS K207, observational	Melting Point:	N/A
Vapor Pressure:	N/A	Evaporation Rate:	Negligible
Flash Point:	364°C (Cleveland Open Cup)	Specific Gravity:	N/A
True Density: (15°C g/cm ²)	1.037	Volatile Characteristics:	None
Penetration: (25°C 1/10mm)	67	Stability:	Stable under normal conditions
Miscibility with water:	immiscible		
Toluene Solubility:	99.98 %		
Kinematic Viscosity: (mm ² /g)	993 @ 120°C 226 @ 150°C 76.1 @ 180°C		

Section IV FIRE and EXPLOSION DATA

This product is not considered to be flammable or explosive. In the presence of a direct flame, the product may support combustion. Extinguishing agents may be used that are suitable to the surrounding fire such as water, foam, carbon dioxide, or dry chemical.

Firefighters should **use self-contained breathing apparatus** since carbon monoxide, carbon dioxide, and irritating gases and / or aerosols may be created as a result of incomplete combustion of this product or surrounding materials.

Section V REACTIVITY DATA

This product is considered to be a chemically stable material and chemical reactivity is not anticipated during normal use. Hazardous polymerization will not occur.

Avoid strong oxidizing agents. Such compounds may result in an exothermic (heat generating) reaction.

This product contains petroleum distillates and is combustible; therefore avoid excessive heat which may result in vapors or mists. Incomplete combustion will produce carbon monoxide.

Section VI HEALTH HAZARD INFORMATION

Potential Health Effects:

Eyes: Based on the known toxicity of the ingredients, this product is not expected to cause prolonged or significant eye irritation. However, because the product does contain small particulate matter (i.e., sand), physical irritation may occur as associated with any foreign body in the eye.

Skin: This product is not expected to cause skin irritation under normal use. However, prolonged or frequent skin contact may cause minor skin irritation due, in part, to physical abrasion.

Ingestion: The systemic toxicity of this substance has not been determined. However, based on its principal ingredients, it should be non-toxic to internal organs if accidentally ingested (swallowed).

Inhalation: This material is not considered to be an inhalation hazard. Odors identified by chemically sensitive individuals may result in symptoms of nausea; however, such effects are not considered to be systemic and removal to "fresh air" should readily reverse symptoms noted.

Section VII FIRST AID MEASURES

Personal Protective Equipment:

Eye: If contact is made with the eye, flush with copious quantities of fresh water (i.e., 15 minutes). Remove contact lenses if worn. Seek medical attention if irritation persists.

Skin: Wash skin thoroughly with soap and water. Do not use solvents, thinners, abrasives, acids or caustics to remove the material from skin. Asphalt can be removed with vegetable oil or mineral oil if soap and water is not effective.

Ingestion: Accidental consumption of this product should not result in systemic toxicity. Drink milk and or water and consume a small amount of soft foods. The product should eliminate itself from the body.

Inhalation: This material is not considered to be an inhalation hazard. However, if symptoms appear that are believed to be associated with odors (i.e., fumes or vapors) associated with this product, remove the patient from the immediate area to a location with "fresh" air.

Section VIII EXPOSURE CONTROLS / PERSONAL EQUIPMENT

Personal Protective Equipment:

Eye/Face Protection: No special eye protection is necessary for normal use. Safety glasses or goggles should be worn if

particulates cause eye irritation.

Skin protection:

Skin protection should be minimized by wearing protective clothing, including gloves. The product contains abrasives (sand and stone) and petroleum distillates which may be abrasive and / or irritating to the skin. Wash skin thoroughly with soap and water after use.

Respiratory Protection:

Product is not considered an inhalation hazard. Respiratory protection should not be necessary under normal use or product spills. Should odors make an individual nauseous, an air-supplying or air-purifying respirator may be used. Selection of media for an air-purifying respirator must consider ambient conditions including humidity. Consult your equipment supplier.

In emergencies, respiratory protection such as self contained breathing apparatus is warranted due the potential presence of incomplete combustion products (i.e., carbon monoxide, etc.) from the product and surrounding materials.

Spills and Disposal:

This material is not considered to be an environmental or health risk and the use of special protective equipment is not usually required in the case of a spill or leak.

Repackage material that has spilled or leaked for re-use. Recycling is the recommended disposal technique. Advise local authorities if large amounts of the material enter sewers or waterways.

For disposal, use only approved treatment, transporters, and disposal sites in compliance with applicable laws.

Section IX FEDERAL REGULATORY REQUIREMENTS (Selected)

US Department of Labor (OSHA):

Selected components are listed as potentially hazardous materials; requirements include available MSDS, hazard communication program, workplace surveillance for hazardous use/conditions.

US Environmental Protection Agency (EPA):

TSCA	Not Applicable
CERCLA Reportable Quantity:	Not Applicable
SARA Title III:	
Section 302 (extremely hazardous substances):	Not Applicable
Section 311/312 (hazard categories)	Not Applicable
Section 313 (toxic chemicals)	Not Applicable
RCRA Status:	Not Applicable

US Department of Transportation (DOT):

Not classified as hazardous

Some components of this product may be listed as a potentially hazardous material by individual states and/or local agencies. For details on regulatory requirements in your local area, contact the appropriate agency.

Section X DISCLAIMER OF LIABILITY

The information contained in this Material Safety Data Sheet was based on sources believed to be reliable as true and correct. However, this information is provided without representation or warranty, either expressed or implied, regarding its accuracy or correctness.

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.....End of Material Safety Data Sheet – Y.K. Products, LLC

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