



SAFETY DATA SHEET

This safety data sheet complies with the requirements of: 29CFR1910.1200

Issue Date 19-May-2015

Revision Date 25-May-2015

Version 1

Product identifier

Product Name Crackfiller H

Other means of identification

Product Code 81850

UN/ID no.

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use For filling and sealing cracks and expansion joints in asphalt and concrete pavements, preventing costly damage to the base below.

Uses advised against For exterior use only. Do not use indoors.

Details of the supplier of the safety data sheet

Manufacturer Address FBC Chemical Corp.
P.O. Box 599
634 Route 228
Mars, Pennsylvania 16046
(724) 625-3116

Emergency telephone number

Company Phone Number 724 625 3116

Emergency Telephone Call CHEMTREC Day or Night:
Within USA and Canada: 1-800 424-9300
Outside USA and Canada: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|-------------|
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 3 |

Label elements

Emergency Overview

Danger

Hazard statements

May cause genetic defects

May cause cancer
 Causes damage to organs through prolonged or repeated exposure
 May be fatal if swallowed and enters airways
 Flammable liquid and vapor



Appearance Viscous

Physical state Liquid

Odor Solvent (Mineral Spirits)

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Keep away from heat/sparks/open flames/hot surfaces.
 Keep container tightly closed when product is not in use.
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

• May be harmful in contact with skin
 Unknown acute toxicity 20.97702% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Mixture

This product is a mixture.
 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Common name Crack Filler.
Synonyms None.

Chemical nature Solvent based asphalt coating with additives.

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|---|------------|----------|--------------|
| Asphalt (at Ambient Temperature) | 8052-42-4 | 50 - 60% | * |
| Mineral Spirits (with < 0.1% Benzene) | 8052-41-3 | 20 - 30% | * |
| Kaolin | 1332-58-7 | 10 - 20% | * |
| Limestone | 1317-65-3 | 0 - 10% | * |
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) | 12174-11-7 | 0 - 10% | * |
| Cellulose Fiber | 9004-34-6 | 0 - 10% | * |
| QUARTZ | 14808-60-7 | 0 - 10% | * |
| Solvent naphtha (petroleum), light aliphatic | 64742-89-8 | 0 - 10% | * |
| Titanium Dioxide | 13463-67-7 | 0 - 10% | * |

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---|--|
| General advice | Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. |
| Eye contact | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Skin contact | Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately. |
| Ingestion | Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-protection of the first aider | First aider: Pay attention to self-protection!. |

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause eye irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO₂). Sand. Use foam or water FOG as a last resort.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

Explosion data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required.

Other Information Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages can not be contained. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.

Methods for cleaning up Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Remove all sources of ignition. Use only outdoors.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition.

Incompatible materials Strong acids. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA. .

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|--|---|---|
| Asphalt (at Ambient Temperature) 8052-42-4 | TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction | - | Ceiling: 5 mg/m ³ fume 15 min |
| Mineral Spirits (with < 0.1% Benzene) 8052-41-3 | TWA: 100 ppm | TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³ | IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³ |
| Kaolin 1332-58-7 | TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Limestone 1317-65-3 | - | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7 | TWA: 1 mg/m ³ respirable fraction | - | - |
| Cellulose Fiber 9004-34-6 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ (vacated) STEL: 10 mg/m ³ | TWA: 1 mg/m ³ |
| QUARTZ 14808-60-7 | - | (vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust |
| Titanium Dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust | IDLH: 5000 mg/m ³ |

Appropriate engineering controls**Engineering Controls**

Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of asphalt vapors. Ventilation must be sufficient to maintain asphalt vapor concentrations below the TWA limits outlined above.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing that is resistant to chemical penetration.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

General Hygiene Considerations

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state
Appearance
Color

Liquid
Viscous
Black

Odor
Odor threshold

Solvent (Mineral Spirits)
No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------------|---|-------------------------|
| pH | N/A | Not applicable |
| Melting point/freezing point | No information available | |
| Boiling point / boiling range | > 337 °C | |
| Flash point | > 40.5 °C / > 105 °F | Setaflash |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | No data available. |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific Gravity | 1.08 - 1.16 | Water = 1g/ml |
| Water solubility | Insoluble | |
| Solubility in other solvents | Soluble in aromatic and aliphatic solvents. | |
| Partition coefficient | No information available | No data available. |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | Vapor accumulation could flash or explode if ignited. | |
| Oxidizing properties | None | |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | Not applicable |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | No information available |
| Bulk density | Not applicable |

10. STABILITY AND REACTIVITY

| <u>Reactivity</u> | |
|-------------------|----------------|
| Not applicable | Not applicable |

Chemical stability
Stable.

Possibility of Hazardous Reactions
None under normal use.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Avoid static discharge. Avoid heat, sparks, and open flame.

Incompatible materials
Strong acids. Strong oxidizing agents.

Hazardous Decomposition Products
Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|--|
| Product Information | Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below. |
| Inhalation | Avoid breathing vapors or mists. |

| | |
|---------------------|---|
| Eye contact | Avoid contact with eyes. Contact with eyes may cause irritation. |
| Skin contact | May cause irritation. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected route of exposure. |

Component Information

* The IARC Monograph (Vol. 103, 2013, Bitumen and Bitumen Emissions) defines Asphalt as 'Group 2B, Possible Carcinogen to Humans'. This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinogen.

** No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: http://www.oehha.org/prop65/CRNR_notices/safe_use/sylicasud2.html

*** The IARC Monograph (Vol 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "Operators in user industries who handle fluffy or pelleted Carbon Black during rubber, paint and ink production are expected to have significantly lower exposures to Carbon Black than workers in Carbon Black production. Other workers in user industries who handle it occasionally have little opportunity for exposure. And further... "End-users of these products (rubber, ink or paint) are unlikely to be exposed to airborne Carbon Black particles, which are bound within the product matrix."

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-----------------------|-------------------------|--------------------------------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| Cellulose Fiber 9004-34-6 | > 5 g/kg (Rat) | > 2 g/kg (Rabbit) | > 5800 mg/m ³ (Rat) 4 h |
| QUARTZ 14808-60-7 | = 500 mg/kg (Rat) | - | - |
| Solvent naphtha (petroleum), light aliphatic 64742-89-8 | - | = 3000 mg/kg (Rabbit) | - |
| Titanium Dioxide 13463-67-7 | > 10000 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Can cause skin irritation.
Serious eye damage/eye irritation Irritating to eyes.
Irritation Irritating to eyes, respiratory system and skin.
Corrosivity Not classified.
Sensitization May cause sensitization of susceptible persons.
Germ cell mutagenicity This product does not contain any ingredients that cause germ cell mutagenicity.
Carcinogenicity The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--|-------|---------------------|-----|------|
| Hydrated Aluminum-Magnesium Silicate (Attapulgate) 12174-11-7 | - | Group 2B Group 3 | - | X |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not classifiable as a human carcinogen.

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

| | |
|---------------------------------|---------------------------|
| Reproductive toxicity | None known. |
| Developmental Toxicity | None known. |
| Teratogenicity | None known. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - No information available

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

| | |
|------------------------|----------|
| ATEmix (oral) | 7,003.00 |
| ATEmix (dermal) | 2,872.00 |

12. ECOLOGICAL INFORMATION

Ecotoxicity

97.78% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|--|--|------|-----------|
| Solvent naphtha (petroleum), light aliphatic 64742-89-8 | 4700: 72 h Pseudokirchneriella subcapitata mg/L EC50 | - | - |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| Chemical Name | Partition coefficient |
|---|-----------------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | 6 |

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------|--|
| Disposal of wastes | Disposal should be in accordance with applicable local, regional, national and international laws and regulations. |
| Contaminated packaging | Do not reuse container. |

14. TRANSPORT INFORMATION

| | |
|--------------------------|--|
| <u>DOT</u> | Not regulated in containers less than 119 Gallons(450Liters) |
| <u>TDG</u> | unknown |
| <u>MEX</u> | unknown |
| <u>ICAO (air)</u> | unknown |
| <u>IATA</u> | unknown |
| <u>IMDG</u> | unknown |
| <u>RID</u> | unknown |
| <u>ADR</u> | unknown |
| <u>ADN</u> | unknown |

15. REGULATORY INFORMATION

International Inventories

| | |
|----------------|---|
| TSCA | All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt. |
| DSL/NDL | All of the components of this product are listed on the DSL. |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | Yes |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

| Chemical Name | California Proposition 65 |
|---|---------------------------|
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) - 12174-11-7 | Carcinogen |
| QUARTZ - 14808-60-7 | Carcinogen |
| Titanium Dioxide - 13463-67-7 | Carcinogen |

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | X | X | X |
| Mineral Spirits (with < 0.1% Benzene) 8052-41-3 | X | X | X |
| Kaolin 1332-58-7 | X | X | X |
| Limestone 1317-65-3 | X | X | X |
| Cellulose Fiber 9004-34-6 | X | X | X |
| QUARTZ 14808-60-7 | X | X | X |
| Titanium Dioxide 13463-67-7 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 2 Instability 0 Physical and Chemical Properties -
HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection -
Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By FBC Administrative Services Department
 Issue Date 19-May-2015
 Revision Date 25-May-2015
 Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Distributed By:

Kayline Company * PO Box 603207 * Cleveland, Ohio 44103 * 216-566-9858 * 800-426-5820 * Fax: 216-566-1228 * www.kaylinecompany.com