



SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: RamTough KLB-100

MANUFACTURER:

BARRETT COMPANY
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CLEVELAND, OH 44114

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EMERGENCY NUMBER: (800) 424-9300

DATE PREPARED: June 16, 2020

Recommended Use: A component part of commercial waterproofing and roofing systems

Restrictions on Use: Should only be used by a Barrett Approved Professional Contractor strictly following Barrett and NRCA specifications and recommendations. Do not use below 30°F. Do not heat over 500°F. Do not inhale fumes.

2: HAZARDS IDENTIFICATION

Physical Hazards: Not Classified
Health Hazards: Not Classified
Environmental Hazards: Not Classified
OSHA defined hazards: Not Classified
No hazards resulting from the material supplied

Label elements

Hazard symbol None
Signal word Not applicable
Hazard statement Not applicable
Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | % Vol |
|--|------------|----------|
| Asphalt | 8052-42-4 | 50 - 100 |
| Distillates (Petroleum) Hydrotreated Heavy Napthenic | 64741-52-5 | 0 - 30 |
| Other components below reportable levels | | 0 - 30 |

4: FIRST AID MEASURES

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed. Call a physician if symptoms develop or persist.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash (or discard) clothing and shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested substance. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed: Not available.

Indication of immediate medical attention and special treatment needed: In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

General information: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Discard any shoes or clothing items that cannot be decontaminated.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Dry chemical powder. Carbon dioxide (CO₂). Addition of water or foam to the fire may cause frothing.

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

Specific hazards arising from the chemical: Fire may produce irritating, corrosive and/or toxic gasses. Development of hazardous combustion gasses or vapors possible in the event of a fire. The following may develop: Acrolein.

Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear full protective clothing including self-contained breathing apparatus. Structural fire fighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Fire fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves rubber boots and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. In the event of fire, cool tanks with water spray. By fire, toxic gasses may be formed (CO, NO_x). Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods: In the event of fire and /or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

7: HANDLING AND STORAGE

Precautions for safe handling: The product is non-combustible. If heated, irritating vapors may be formed. Do not use in areas without adequate ventilation. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| <u>Components</u> | <u>Type</u> | <u>Value</u> | <u>Form</u> |
|---|-------------|--------------------|-------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | PEL | 5mg/m ³ | Mist. |

US. ACGIH Threshold Limits Values

| <u>Components</u> | <u>Type</u> | <u>Value</u> | <u>Form</u> |
|-------------------------|-------------|----------------------|---------------------|
| ASPHALT (CAS 8052-42-4) | TWA | 0.5mg/m ³ | Inhalable fraction. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|---|-----------------|------------------------|--------------------|
| ASPHALT (CAS 8052-42-4) | Ceiling | 5mg/m3 | Fume. |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5) | STEL TWA | 10mg/m3 5 mg/m3 | Mist. Mist. |

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual Protection measures, such as personal protective equipment

| | |
|---------------------------------------|---|
| Eye/face protection | Wear safety glasses; chemical goggles (if splashing is possible). Wear chemical goggles; face shield (if handling molten material). |
| Hand protection | Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. |
| Other | Wear suitable protective clothing and eye/face protection. Use an impervious apron is recommended. |
| Skin protection | |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Thermal hazards | During product use, there is a risk of thermal burns. |
| General hygiene considerations | When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices. |

9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance | Solid. |
| Physical State | Solid. |
| Form | Solid. |
| Color | Black. Dark brown. |
| Odor | Product is a black, semi-solid with a burnt tar odor. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | 150 -250°F (65.56 -121.11°C) ASTM D36 Softening Point |
| Initial boiling point and boiling range | >800°F (>426.67°C) |
| Flash point | >400°F (>204.4°C) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or exposure limits | |
| Flammability limit – lower (%) | Not available. |
| Flammability limit – upper (%) | Not available. |
| Explosive limit – lower (%) | Not available. |
| Explosive limit – upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | >700°F (>371.11°C) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | Not available. |
| Percent volatile | 0% |
| Specific gravity | 1 – 1.9 |

10: STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | Not available. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| Conditions to avoid | Strong oxidizing agents. |
| Incompatible materials | Incompatible with oxidizing agents. |
| Hazardous decomposition | Upon decomposition, product emits acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of nitrogen and sulfur. products |

11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Inhalation: May cause irritation to the respiratory system.

Skin contact: Irritating to skin.

Eye contact: Causes eye irritation. Molten material will produce thermal burns.

Symptoms related to the physical, chemical and toxicological characteristics: Not available.

Information on toxicological effects

Acute toxicity: Not available.

Skin corrosion/irritation: Defats the skin. Causes irritation.

Serious eye damage/eye irritation: Irritating to eyes.

Respiratory or skin sensitization

Respiratory sensitization: Not available.

Skin sensitization: Irritating to skin.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

IARC Monographs, Overall Evaluation of Carcinogenicity

Asphalt 8052-42-4

2B Possibly carcinogenic to humans

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed

Reproductive toxicity: Contains no ingredient listed as toxic to reproduction.

Specific target organ toxicity – single exposure: Not available.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: Not available.

Chronic effects: Prolonged inhalation may be harmful. May cause eczema-like skin disorders (dermatitis).

12: ECOLOGICAL INFORMATION

Ecotoxicity: This product has no known eco-toxicological effects. Not expected to be harmful to aquatic organisms.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

13: DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents/container in accordance with local/regional/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Hazardous waste code: Not applicable.

Waste from residues/unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

14:**DISPOSAL CONSIDERATIONS****DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Further Information: If the product is shipped at ambient temperature, not regulated for transport by ground, air or vessel. If shipped above 212 deg F: "UN3257, Elevated Temperature Liquid, n.o.s. (Asphalt mixture), 9, PG III"

15:**REGULATORY INFORMATION**

US federal regulations: All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ASPHALT (CAS 8052-42-4) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard – No

Delayed – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard - No

SARA 302 extremely hazardous substance

Not Listed.

SARA 311/312 hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK – Substance List

ASPHALT (CAS 8052-42-4)

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK – Hazardous Substances

ASPHALT (CAS 8052-42-4)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US – California Proposition 65 – CRT: Listed date/Carcinogenic substance

ASPHALT (CAS 8052-42-4)

Listed: January 1, 1990

International inventories:

| Country(s) or region: | Inventory name | On inventory (yes/no)* |
|-----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |

| | | |
|-----------------------------|--|-----|
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16: OTHER INFORMATION

Further information: HMIS® is a registered trade and service mark of the NPCA.

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Version #: 1

References:

ACGIH
EPA: AQUIRE Database
NLM: Hazardous Substances Database
US. IARC Monographs on Occupational Exposures to Chemical Agents
Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive order No. 19203)
Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)
Korea. Harmful substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29)
Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential decree on the Industrial Safety and Health Act (No. 13053), article 30)
Korea. Non-toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended)
Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)
Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor (MOL) Public Notice No. 1986-45, as amended)
Korea. Prohibited chemical Substances (TCCL Article 11)
Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)
Korea. Restricted Chemical substances (TCCL Article 11)
Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)
Korea. Toxic Chemical Control Law (TCCL), pre-1997 List
Korea. Toxic Chemicals (TCCL Article 10)
Korea. Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)
Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)
Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)
Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials)
Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration)
Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)
HSDB® - Hazardous Substances Data Bank
JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections
JCIA GHS Guideline, October 2008
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices.
Japan Society for Occupational Health, recommendation of Occupational Exposure Limits

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