



Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations



Printing date: 03/23/2016

Revision: 03/23/2016

1 Identification

- **Product identifier**
- **Trade name: Roof Mastic- Rain Kote**
- **Product code:**
 - RKM4: 1 Gallon Roof Mastic Asbestos Free
 - RKM10: 10.3 oz. Roof Mastic Asbestos Free-Cartridge
 - RKM1: 1 Quart Roof Mastic Asbestos Free
- **Recommended use and restriction on use**
- **Recommended use:** Roof coating
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
 - L.H. Dottie Company
 - 6131 Garfield Ave.
 - Commerce, CA 90040
 - (323) 725-1000
- **Emergency telephone number:**
 - ChemTel Inc.
 - +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
 - Flam. Liq. 3 H226 Flammable liquid and vapor.
 - Muta. 1B H340 May cause genetic defects.
 - Carc. 1B H350 May cause cancer.
 - STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- **Label elements**
- **GHS label elements**
 - The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**
 -  
 - GHS02 GHS08
- **Signal word:** Danger
- **Hazard-determining components of labeling:**
 - Asphalt
 - Stoddard solvent
 - Attapulgite (Palygorskite)
- **Hazard statements:**
 - H226 Flammable liquid and vapor.
 - H340 May cause genetic defects.
 - H350 May cause cancer.

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H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P260 Do not breathe mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves and eye protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P270 Do not eat, drink or smoke when using this product.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P331 Do NOT induce vomiting.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Components:**

8052-42-4	Asphalt ☠ Carc. 2, H351	40-60%
8052-41-3	Stoddard solvent ☠ Flam. Liq. 3, H226 ☠ Muta. 1B, H340; Carc. 1B, H350; STOT RE 1, H372; Asp. Tox. 1, H304	10-20%
1332-58-7	Kaolin	10-20%
12174-11-7	Attapulgite (Palygorskite) ☠ Carc. 2, H351	<10%
9004-34-6	Cellulose	<5%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

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4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

- **After skin contact:**

Do not pull solidified product away from the skin.
Wash with soap and water.
If skin irritation is experienced, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed:**

Headache
Breathing difficulty
Dizziness
Slight irritant effect on skin and mucous membranes.
Slight irritant effect on eyes.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Unconsciousness

- **Danger:**

Danger of impaired breathing.
May cause genetic defects.
May cause cancer.
Causes damage to the central nervous system through prolonged or repeated exposure.

- **Indication of any immediate medical attention and special treatment needed:**

Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Water fog / haze
Foam
Gaseous extinguishing agents
Fire-extinguishing powder
Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:** Water stream.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information:**
 - Eliminate all ignition sources if safe to do so.
 - Cool endangered containers with water fog.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation.
 - Keep away from ignition sources.
 - Protect from heat.
 - Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Avoid release to the environment.
- **Methods and material for containment and cleaning up:**
 - Allow to solidify. Pick up mechanically.
 - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections:**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Prevent formation of aerosols.
 - Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Keep respiratory protective device available.
 - Flammable gas-air mixtures may be formed in empty containers/receptacles.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 - Provide ventilation for receptacles.
 - Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizing agents.

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- **Further information about storage conditions:**
Keep containers tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

8052-42-4 Asphalt

REL (USA)	Ceiling limit value: 5* mg/m ³ *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m ³ *inh. fraction; as benzene-soluble aerosol; BEIp
EL (Canada)	Long-term value: 0.5 mg/m ³ inhalable, IARC 2B
EV (Canada)	Long-term value: 0.5 mg/m ³ fume, as benzene-soluble aerosol, inhalable
LMPE (Mexico)	Long-term value: 0.5* mg/m ³ A4, IBEp,*fracción inhalable

8052-41-3 Stoddard solvent

REL (USA)	Long-term value: 2900 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 350 mg/m ³ Ceiling limit value: 1800* mg/m ³ *15-min
TLV (USA)	Long-term value: 525 mg/m ³ , 100 ppm
EL (Canada)	Short-term value: 580 mg/m ³ Long-term value: 290 mg/m ³
EV (Canada)	Long-term value: 525 mg/m ³
LMPE (Mexico)	Long-term value: 100 ppm

1332-58-7 Kaolin

REL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 2* mg/m ³ E; as respirable fraction
EL (Canada)	Long-term value: 2 mg/m ³
EV (Canada)	Long-term value: 2(D) mg/m ³ respirable
LMPE (Mexico)	Long-term value: 2* mg/m ³ A4, *fracción respirable

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9004-34-6 Cellulose

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m ³
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m ³ paper fibre, total dust
LMPE (Mexico)	Long-term value: 10 mg/m ³

Ingredients with biological limit values:**8052-42-4 Asphalt**

BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.**Breathing equipment:**

Not required under normal conditions of use.

For spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands:

Gloves are advised for repeated or prolonged contact.

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.**Body protection:** Protective work clothing**Limitation and supervision of exposure into the environment**

No relevant information available.

Risk management measures No relevant information available.

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· Appearance:

· Form:	Liquid
· Color:	Black
· Odor:	Petroleum-like
· Odor threshold:	Not determined.

· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	>149 °C (>300 °F)

· Flash point:	41 °C (106 °F)
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· Flammability (solid, gaseous):	Not applicable.
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· Auto-ignition temperature:	Not determined.
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· Decomposition temperature:	Not determined.
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· Auto igniting:	Product is not self-igniting.
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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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· Explosion limits

· Lower:	Not determined.
· Upper:	Not determined.

· Oxidizing properties:	Not determined.
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· Vapor pressure at 20 °C (68 °F):	0.293 kPa
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· Density:	1.02 - 1.12 g/cm ³ (8.512 - 9.346 lbs/gal)
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· Relative density:	Not determined.
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· Vapor density:	Not determined.
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· Evaporation rate:	Not determined.
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· Solubility in / Miscibility with

· Water:	Not miscible or difficult to mix.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity

· Dynamic:	Not determined.
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· Kinematic:	Not determined.
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· VOC content:	<250 g/l
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· Other information	No relevant information available.
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10 Stability and reactivity

· **Reactivity:** No relevant information available.

· **Chemical stability:** Stable under normal temperatures and pressures.

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- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions:**
 - Flammable.
 - Reacts with strong oxidizing agents.
 - Toxic fumes may be released if heated above the decomposition point.
 - Used empty containers may contain product gases which form explosive mixtures with air.
 - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** Oxidizers
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Hydrocarbons
 - Sulfur oxides (SO_x)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Slight irritant effect on skin and mucous membranes.
- **On the eye:** Slight irritant effect on eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):		
8052-42-4	Asphalt	2B
12174-11-7	Attapulgite (Palygorskite)	2B

· NTP (National Toxicology Program):		
None of the ingredients are listed.		

· OSHA-Ca (Occupational Safety & Health Administration):		
None of the ingredients are listed.		

- **Probable route(s) of exposure:**

Ingestion.

Eye contact.

Skin contact.

- **Repeated dose toxicity:** Danger of very serious irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - Muta. 1B, Carc. 1B
- **Germ cell mutagenicity:** May cause genetic defects.
- **Carcinogenicity:** May cause cancer.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:**
 - Causes damage to the central nervous system through prolonged or repeated exposure.

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· **Aspiration hazard:** Based on available data, the classification criteria are not met.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
 - **DOT**
 - **ADR, IMDG, IATA**
- NA1993
Reclassified as combustible under US DOT regulations. Labeling is only required for single packages ≥ 119 US gal / 450 L to include Combustible symbol and Proper Shipping Name.
UN1268

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UN proper shipping name

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT
· ADRCOMBUSTIBLE LIQUID, N.O.S (Stoddard Solvent)
1268 PETROLEUM DISTILLATES, N.O.S.
(STODDARD SOLVENT)

· IMDG

PETROLEUM DISTILLATES, N.O.S. (STODDARD SOLVENT)

· IATA

Petroleum distillates, n.o.s. (Stoddard Solvent)

Transport hazard class(es)

· DOT

· Class
· Label3 Combustible liquids
3

· ADR

· Class
· Label3 (F1) Flammable liquids
3

· IMDG, IATA

· Class
· Label3 Flammable liquids
3**Packing group**

· DOT, ADR, IMDG, IATA

III

Environmental hazards

· Marine pollutant:

No

Special precautions for user

Warning: Flammable liquids

· Danger code (Kemler):

30

· EMS Number:

F-E,S-E

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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· Transport/Additional information:**· IATA**

Limited quantity by air: 10 L

15 Regulatory information**· Safety, health and environmental regulations/legislation specific for the substance or mixture**

- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)**· Chemicals known to cause cancer:**

Reference to Attapulgite is based on unbound respirable particles and is not generally applicable to product as supplied.

8052-42-4 Asphalt

12174-11-7 Attapulgite (Palygorskite)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

8052-42-4 Asphalt

2B

12174-11-7 Attapulgite (Palygorskite)

2B

· NIOSH-Ca (National Institute for Occupational Safety and Health):

8052-42-4 Asphalt

· Canadian substance listings**· Canadian Domestic Substances List (DSL):**

All ingredients are listed.

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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 03/23/2016 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1B: Carcinogenicity, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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