

Insulation

US & CA

**GreenGuard**<sup>®</sup>

Standard Flashing

SAFETY DATA SHEET

## 1 Identification of Products and Company

Products:

Kingspan<sup>®</sup> GreenGuard<sup>®</sup> Standard Flashing

Recommended use:

Identified uses: Waterproofing membrane, window and door flashing.

Supplier:

Kingspan Insulation LLC

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## 2 Hazards Identification

Classification in accordance with paragraph (d) of 29 CFR 1910.1200:

Skin Corrosion / Irritation - Category 2 Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 2 (liver, kidney, thymus).

Hazard Statement:

Causes skin irritation. May damage fertility or the unborn child. May cause damage to organs.

Precautionary Statement:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective clothing / eye

protection / face protection. Do not breathe dust / fume / gas / mist /

vapors / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: If exposed or concerned: Call a POISON CENTER or doctor / physician.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice / attention. Take off contaminated clothing and wash before reuse.  
Specific treatment (see label).

Other Hazards Classifications:

No additional information available.

### 3 Composition/Information on Ingredients

Chemical Name	Case No.	% Weight Range
Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	Concentration: 1-5%
Asphalt	8052-42-4	Concentration: 0-80%
Asphalt, oxidized	64742-93-4	Concentration: 0-80%
Distillates, petroleum, petroleum residues vacuum	68955-27-1	Concentration: 0-80%
Residues, petroleum, vacuum	64741-56-6	Concentration: 0-80%
Fatty acids, tall-oil, low-boiling	Mixture	Concentration: 1-5%

### 4 First-Aid Measures

Description of first-aid measures:

If exposed or concerned: Call a POISON CENTER or doctor / physician.

Inhalation: Inhalation unlikely due to physical form. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell.

Skin: Wash exposed skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice / attention.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.

Ingestion: Immediately call a POISON CENTER or doctor / physician.  
Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment

needed: Treat symptomatically and supportively.

#### Most Important Symptoms / Effects

Acute: Causes skin irritation. May cause damage to the kidneys, liver, thymus.

Delayed: May damage fertility or the unborn child.

Note to Physicians: Contains ASPHALT.

## 5 Fire-Fighting Measures

#### Extinguishing Media:

Use carbon dioxide, regular dry chemical, regular foam or water.

#### Special hazards arising from the substance:

Slight fire hazard.

#### Hazardous Combustion Products:

Oxides of carbon, hydrocarbons.

#### Advice for firefighters:

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

## 6 Accidental release Measures

Personal precautions, protective equipment and emergency procedures: Wear proper personal protective equipment as indicated in Section 8.

#### Environmental precautions:

It is good practice to prevent release of this product into the environment.

#### Methods and material for containment and cleaning up:

Sweep, scoop or vacuum product for recovery, recycling or disposal.

## 7 Handling and Storage

#### Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wear protective gloves / protective clothing / eye protection / face protection. Do not

breathe dust / fume / gas / mist / vapors / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. KEEP OUT OF REACH OF CHILDREN.

#### Conditions for safe storage:

Store locked up. Store in a cool, dry place. Keep container tightly closed and in a well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

Incompatible materials:

Strong oxidizers, aromatic and chlorinated hydrocarbons.

## 8 Exposure Controls / Personal Protection

Component Exposure Limits:

Asphalt:	8052-42-4
ACGIH:	0.5 mg / m <sup>3</sup> TWA as benzene soluble aerosol fume, inhalable fraction
NIOSH:	5 mg / m <sup>3</sup> Ceiling fume 15 min
Mexico:	5 mg / m <sup>3</sup> TWA LMPE-PPT 10 mg / m <sup>3</sup> STEL [LMPE-CT]
Hydrogen sulfide:	7783-06-4
ACGIH:	1 ppm TWA 5 ppm STEL
NIOSH:	10 ppm Ceiling 10 min; 15 mg / m <sup>3</sup> Ceiling 10 min 100 ppm IDLH
Europe:	5 ppm TWA; 7 mg / m <sup>3</sup> TWA 10 ppm STEL; 14 mg / m <sup>3</sup> STEL
OSHA (US):	20 ppm Ceiling
Mexico:	10 ppm TWA LMPE-PPT; 14 mg / m <sup>3</sup> TWA LMPE-PPT 15 ppm STEL [LMPE-CT]; 21 mg / m <sup>3</sup> STEL [LMPE-CT]

Biological limit value: There are no biological limit values for any of this product's components.

Engineering Controls: Provide adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye / Face Protection: Wear safety glasses or safety goggles, with a face shield, as appropriate. Provide an emergency eye wash fountain and quick shower in the immediate work area.

Skin Protection: Wear chemical resistant clothing and rubber boots when

potential for contact with the material exists.  
Recommended material: protective skin cream.

Respiratory Protection: A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations: Wear appropriate chemical resistant gloves.

## 9 Physician and Chemical Properties

Information on basic physical and chemical properties:

Appearance:	Blue film surface, black rubber asphalt membrane.
Physical State:	Solid.
Color:	Black.
Odor:	Slight, petroleum.
Odor Threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not applicable.
Flash point:	<425°F
Evaporation rate:	<0.01.
Flammability (solid, gas):	1.
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	1 – 1.2
Solubility (ies):	Insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.
Sensitivity to mechanical impact:	Not applicable.
Sensitivity to static discharge:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not applicable.
VOC content:	Not available.

## 10 Stability and Reactivity

Reactivity: Not classified for reactivity hazards.

Chemical Stability: Stable at normal ambient and anticipated storage and handling conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Do not use in conditions of extreme heat or near open flames.

Incompatible Materials: Strong acids, strong oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon, hydrocarbons.

## 11 Toxicological Information

Information on Likely Routes of Exposure:

Inhalation: Not likely route of exposure.

Skin contact: Causes skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Asphalt (8052-42-4)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Asphalt, oxidized (64742-93-4)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Distillates, petroleum, petroleum residues vacuum (68955-27-1)

Oral LD50 Rat 4320 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Residues, petroleum, vacuum (64741-56-6)

Oral LD50 Rat 4320 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Hydrogen sulfide (7783-06-4)

Inhalation LC50 Rat 0.99 mg/L 1 h  
Fatty acids, tall-oil, low-boiling (Mixture)  
Oral LD50 Rat >2000 mg/kg  
Dermal LD50 Rat >2000 mg/kg

Immediate Effects: Causes skin irritation. May cause damage to kidneys, liver, thymus.

Delayed Effects: May damage fertility or the unborn child.

Irritation / Corrosivity Data: May cause mild skin irritation. May cause mild eye irritation. May cause respiratory irritation.

Respiratory Sensitization: No data available.

Dermal Sensitization: No data available.

Component Carcinogenicity:

Asphalt:	8052-42-4
ACGIH:	A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)
IARC:	Monograph 103 [2013]; Supplement 7 [1987] (extracts of steam-refined and air-refined); Monograph 35 [1985] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 2 (considered to be carcinogenic for man, aerosol and vapor)
OSHA:	Present
Asphalt, oxidized:	64742-93-4
IARC:	Monograph 103 [2013] (and their emissions during roofing)(Group 2A (probably carcinogenic to humans))
OSHA:	Present
Polycyclic aromatic hydrocarbons	130498-29-2

NTP: Reasonably Anticipated to be a Human Carcinogen

OSHA: Present

Germ Cell Mutagenicity: No data available.

Tumorigenic Data: No data available.

Reproductive Toxicity: May damage fertility or the unborn

child.

Specific Target Organ Toxicity - Single Exposure: Kidneys, liver, thymus

Specific Target Organ Toxicity - Repeated Exposure: No target organs identified.

Aspiration Hazard: No data available.

Medical Conditions Aggravated by Exposure: No data available.

Additional Data: No additional information available.

## 12 Ecological Information

Ecotoxicity: Avoid release to the environment.

Component Analysis - Aquatic Toxicity

Distillates, petroleum,

hydrotreated heavy naphthenic: 64742-52-5

Fish : LC50 96 h Oncorhynchus mykiss  
>5000 mg/L

Invertebrate: EC50 48 h Daphnia magna >1000 mg/L

IUCLID

Asphalt, oxidized: 64742-93-4

Algae: EC50 72 h Pseudokirchneriella  
subcapitata  
56 mg/L IUCLID

Distillates, petroleum,

petroleum residues vacuum:

68955-27-1

Fish: LC50 96 h Brachydanio rerio 48 mg/L  
[semi-static]

Residues, petroleum, vacuum: 64741-56-6

Fish: LC50 96 h Brachydanio rerio 48 mg/L  
[semi-static]

Hydrogen sulfide: 7783-06-4

Fish: LC50 96 h Lepomis macrochirus  
0.0448 mg/L [flow-through]; LC50 96 h  
Pimephales promelas 0.016 mg/L [flow-  
through]

Fatty acids, tall-oil, low-boiling: Mixture

Fish: LC50 96 h Brachydanio rerio  
50 - 100 mg/L [semi-static]

Algae: EC50 72 h Pseudokirchneriella



Invertebrate: subcapitata >10 mg/L IUCLID  
EC50 48 h Daphnia magna 70 mg/L  
IUCLID

Persistence and Degradability: No information available for the product.

Bioaccumulative Potential: No information available for the product.

Mobility: No information available for the product.

Other Toxicity: No information available

### 13 Disposal Considerations

Waste treatment methods:

Dispose of contents / container in accordance with local / regional / national / international regulations.

### 14 Transport Information

UN Number: Not regulated as a dangerous good for transport

UN proper shipping name: Not regulated as a dangerous good for transport  
Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable  
Special precautions for user: None known

### 15 Regulatory Information

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Hydrogen sulfide: 7783-06-4

SARA 302: 500 lb TPQ

SARA 313: 1% de minimis concentration CERCLA: 100 lb final RQ; 45.4 kg final RQ OSHA (safety): 1500lb TQ

SARA 304: 100 lb EPCRA RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous

substances lists:

Component	Case No.	CA	MA	MN	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes
Asphalt, oxidized	64742-93-4	No	No	No	Yes	No
Hydrogen sulfide	7783-06-4	Yes	Yes	Yes	Yes	Yes
Polycyclic aromatic hydrocarbons	130498-29-2	No	No	Yes	Yes	Yes

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

USA:

OSHA: Article, Non-Hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.120 (2012). TSCA Inventory: All component substances are listed on the TSCA 8(b) inventory.

Contains: Hexabromocyclododecane as flame-retardant TSCA Section 8(a) PAIR reporting list; Section 8(d) health and safety reporting list of substances.

SARA Title III : Sec.302 / 304: None.

Sec. 313: None.

California Prop 65: This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

Canada:

WHMIS Classification: Not controlled. Product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

## 16 Other Information

Revision Date: March 21, 2022

References and sources for data:

Supplier MSDS for component materials.

Legend to abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists. GHS Globally Harmonized System for Classification and Labeling, UNECE 2013.

IARC	International Agency for Research on Cancer.
OSHA	United States, Occupational Safety and Health Administration. NOAEL
	No observed adverse effect level.
NTP	National Toxicology Program.
WHMIS	Canada, Workplace Hazardous Materials Information System.

**Additional information:**

For additional product and/or MSDS information, please contact Kingspan Insulation LLC at (800) 241-4402. Information provided by sources external to our company and set forth herein is offered in good faith as accurate, but without guarantee. Safety precautions contained herein cannot anticipate all individual and unique situations. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use of the product are, therefore, assumed by the user, and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing herein is intended as recommendation for uses which infringe valid patents or as extension of license under valid patents. Appropriate warnings and safe handling procedures should be provided to users.



Please scan the QR code for the most recent product information.

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