



KEE-Lock Mastic

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 12/10/2024

Date of Issue: 02/11/2020

Version: 6.1

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Paste

Product Name: KEE-Lock Mastic

Product Code: 7303

Intended Use of the Product

Adhesive

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 ; 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Irritation 2A	H319
Skin sens. 1A	H317
Specific target organ toxicity (RE) 2	H373

Disclaimer: ATTENTION! Some of the additives disclosed in Section 3 such as Carbon Black and or Titanium Dioxide are regulated by California Proposition 65 as carcinogens when they are in the form of "airborne, unbound particles of respirable size". Since the disclosed materials are bound in the polymer matrix, they will not be available as an airborne hazard (dust, mist, or spray) under normal conditions of use. Therefore, this product does not present a respiration hazard as outlined by the Prop 65 regulations.

Label Elements

GHS-US Labeling

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

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Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H319 – Causes serious eye irritation

H317 – May cause an allergic skin reaction.

H373 – May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (GHS-US)

: Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust, fume, gas, mist, vapors and spray

Wear protective gloves, eye protection and face protection

Get medical advice/attention if you feel unwell

IF IN 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 and attention.

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice and attention

Wash contaminated clothing before reuse

Dispose of contents/container in accordance with local regulation.

Other hazards: This product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

Name	Product Identifier	% (w/w)
Calcium Carbonate	471-34-1 20 - 40	20 - 40
Limestone	1317-65-3	10 - 20
Titanium Dioxide	13463-67-7	1 - <5
Stearic Acid	57-11-4	1 - <5
Proprietary Dehydration Agent	Trade secret	1 - <5
Proprietary Adhesion Promoter	Trade secret	1 - <5
Crystalline Silica	14808-60-7	<0.1
Carbon Black	1333-86-4	<0.1

Composition Comments: Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

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Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. Containers may explode when heated.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protective equipment

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Calcium Carbonate 471-34-1		TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust
Limestone 1317-65-3		TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable	TWA: 10 mg/m3 total dust

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

Date of issue: 02/11/2020

		fraction (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction	TWA: 5 mg/m3 respirable dust
Titanium Dioxide 13463-67-7	TWA: 0.2 mg/m3 nanoscale respirable particulate matter TWA: 2.5 mg/m3 finescale respirable particulate matter		IDLH: 5000 mg/m3 TWA: 2.4 mg/m3 CIB 63 fine TWA: 0.3 mg/m3 CIB 63 ultrafine, including engineered nanoscale
Stearic Acid 57-11-4	TWA: 10 mg/m3 inhalable particulate matter TWA: 3 mg/m3 respirable particulate matter		
Crystalline Silica 14808-60-7	TWA: 0.025 mg/m3 respirable particulate matter	TWA: 50 µg/m3 (vacated) TWA: 0.1 mg/m3 respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction: (10)/(%SiO2 + 2) mg/m3 TWA respirable fraction	IDLH: 50 mg/m3 respirable dust TWA: 0.05 mg/m3 respirable dust
Carbon Black 1333-86-4	TWA: 3 mg/m3 inhalable particulate matter	TWA: 3.5 mg/m3 (vacated) TWA: 3.5 mg/m3	IDLH: 1750 mg/m3 TWA: 3.5 mg/m3 TWA: 0.1 mg/m3 Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

Chemical name	Alberta	British Columbia	Ontario	Quebec
Calcium Carbonate 471-34-1	TWA: 10 mg/m3	TWA: 10 mg/m3 TWA: 3 mg/m3 STEL: 20 mg/m3		TWA: 10 mg/m3
Limestone 1317-65-3	TWA: 10 mg/m3	TWA: 10 mg/m3 TWA: 3 mg/m3 STEL: 20 mg/m3		TWA: 10 mg/m3
Titanium Dioxide 13463-67-7	TWA: 10 mg/m3	TWA: 10 mg/m3 TWA: 3 mg/m3	TWA: 10 mg/m3	TWA: 10 mg/m3
Stearic Acid 57-11-4		TWA: 10 mg/m3 TWA: 3 mg/m3	TWA: 10 mg/m3 TWA: 3 mg/m3	TWA: 10 mg/m3
Proprietary Dehydration Agent			STEL: 10 ppm STEL: 60 mg/m3	
Crystalline Silica 14808-60-7	TWA: 0.025 mg/m3	TWA: 0.025 mg/m3	TWA: 0.10 mg/m3	TWA: 0.10 mg/m3
Carbon Black 1333-86-4	TWA: 3.5 mg/m3	TWA: 3 mg/m3	TWA: 3 mg/m3	TWA: 3 mg/m3

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

Date of issue: 02/11/2020

Appropriate engineering controls

Engineering controls Showers

Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical state	Liquid
Appearance	Paste
Color	Not applicable
Odor	Not applicable
Odor threshold	Not applicable
pH	Not applicable
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not applicable
Flammability Limit in Air	
Upper flammability or explosive limits	Not applicable
Lower flammability or explosive Limits	Not applicable
Vapor pressure	Not applicable
VOC	<50 g/L
Relative vapor density (Air=1)	>1
Relative density	Not applicable
Water solubility	Not applicable
Solubility(ies)	Not applicable
Partition coefficient	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	Not applicable
Kinematic viscosity	Contact the manufacturer
Dynamic viscosity	Contact the manufacturer

Other information

Explosive properties No information available

Oxidizing properties No information available

Softening point No information available

Molecular weight No information available

VOC content <25 g/L

Liquid Density No information available

Bulk density No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

Date of issue: 02/11/2020

Conditions to avoid None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May be harmful if inhaled.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in contact with skin.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 18,115.90 mg/kg

ATEmix (dermal) 3,891.80 mg/kg

ATEmix (inhalation-gas) 99,999.00 ppm

ATEmix (inhalation-dust/mist) 101.40 mg/l

ATEmix (inhalation-vapor) 366.80 mg/l

Unknown acute toxicity

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Carbonate 471-34-1	6450 mg/kg (Rat)	>2000 mg/kg (Rat)	>3 mg/L (Rat) 4h
Titanium Dioxide 13463-67-7	>10000 mg/kg (Rat)	-	5.09 mg/L (Rat) 4h
Stearic Acid 57-11-4	4600 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Proprietary Dehydration Agent	7340 µL/kg (Rat)	3.54 mL/kg (Rabbit)	16.8 mg/L (Rat) 4h
Proprietary Adhesion Promoter	2413 mg/kg (Rat)	>2009 mg/kg (Rabbit)	1.49-2.44 mg/L (Rat) 4h
Carbon Black 1333-86-4	>15400 mg/kg	-	>4.6 mg/m3 (Rat) 4h

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7	A3	Group 2B	-	X

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

Date of issue: 02/11/2020

Crystalline Silica 14808-60-7	A2	Group 1	Known	X
Carbon Black 1333-86-4	A3	Group 2B	-	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Stearic Acid 57-11-4- LC50: <3000mg/L (96h, Brachydanio rerio)

LC50: >1000mg/L (96h, Danio rerio)

Proprietary Dehydration Agent - LC50: =191mg/L (96h, Oncorhynchus mykiss)

Persistence and degradability No information available.

Bioaccumulation

Component Information

Stearic Acid 57-11-4 – Partition coefficient: 3.3

Mobility in soil No information available.

Other adverse effects No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Unused and Contaminated Product: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : Not regulated

Hazard Class : Not regulated

Identification Number : Not regulated

Packing Group : Not regulated

SECTION 15: REGULATORY INFORMATION

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA All ingredients are listed or exempt.

KEE-Lock Mastic

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DSL/NDSL All ingredients are listed or exempt.
EINECS/ELINCS Contact supplier for inventory compliance status.
ENCS Contact supplier for inventory compliance status.
IECSC Contact supplier for inventory compliance status.
KECL Contact supplier for inventory compliance status.
PICCS Contact supplier for inventory compliance status.
AIIC Contact supplier for inventory compliance status.
NZIoC Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - 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
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Titanium Dioxide - 13463-67-7 Carcinogen

Crystalline Silica - 14808-60-7 Carcinogen

Carbon Black - 1333-86-4 Carcinogen

See disclaimer in section 2. Warning! This product can expose you to chemicals, including Titanium Dioxide which is known to the State of California to cause cancer. For more information, go to www.p65Warnings.ca.gov

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

SECTION 16: OTHER INFORMATION

Revision Date : 12/10/2024
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Party Responsible for the Preparation of This Document : The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-1800-762-8225
F-216-641-0633

KEE-Lock Mastic

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 12/10/2024

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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2018 & WHMIS