SAFETY DATA SHEET

589 Key Lastic SL Binder - Part A (Pigmented)

Printed: 05/28/2021
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Supersedes Revision: 06/29/2015

1. Product and Company Identification

Product Code: 589-000

Product Name: 589 Key Lastic SL Binder - Part A (Pigmented)

Trade Name: 589 Key Lastic SL Binder - Part A (Pigmented)

Company Name: Key Resin / Flowcrete
4050 Clough Woods Dr.
Batavia, OH 45103

Phone Number:
+1 (513)943-4225

Emergency Contact: Chemtrec (USA) (800)424-9300
Chemtrec (International) +1 (703)527-3887

Intended Use: Industrial floor coatings.

2. Hazards Identification

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2B
Skin Sensitization, Category 1B
Aquatic Toxicity (Acute), Category 2
Aquatic Toxicity (Chronic), Category 2

Warning

GHS Hazard Phrases:
H315 - Causes skin irritation.
H320 - Causes eye irritation.
H317 - May cause an allergic skin reaction.
H401 - Toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P362+364 - Take off contaminated clothing and wash it before reuse.
P273 - Avoid release to the environment.

GHS Response Phrases:
P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention.
P362 - Take off contaminated clothing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P314 - Get medical attention/advice if you feel unwell.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.
P391 - Collect spillage.

GHS Storage and Disposal Phrases:
P501 - Dispose of contents/container to local, state, and federal authority requirements.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic): May cause eye irritation. May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation. Allergic reactions are possible.

Eye Contact: Causes eye irritation.

Ingestion: May be harmful if swallowed.

Medical Conditions Generally Aggravated By Exposure: Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	40 - 55 %	
1317-65-3	Limestone	15 - 25 %	
108-32-7	(+-)-Propylene carbonate, Anhydrous	15 - 25 %	
68609-97-2	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	1.0 - 5.0 %	
13463-67-7	Titanium dioxide	0 - 10 %	
1317-61-9	Iron oxide	0 - 10 %	
1309-37-1	Iron oxide (Fe2O3)	0 - 10 %	
51274-00-1	C.I. Pigment Yellow 42	0 - 10 %	

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. For further assistance, contact your local Poison Control Center.

Signs and Symptoms Of Exposure: May cause skin, eye, and respiratory irritation. May cause allergic skin reaction.

5. Fire Fighting Measures

Flash Pt: > 200.00 C (392.0 F) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: NE UEL: NE

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media: Do not use a direct water stream, which may spread fire.

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

Flammable Properties and Hazards: Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Steps To Be Taken In Case Material Is Released Or Spilled: PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.
Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

7. Handling and Storage

Precautions To Be Taken in Handling: Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing: Keep container tightly closed in a dry and well-ventilated place.

Other Precautions: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	No data.	No data.	No data.
1317-65-3	Limestone	PEL: 15 (dust); 5 (resp.) mg/m3	No data.	No data.
108-32-7	(+-)-Propylene carbonate, Anhydrous	No data.	No data.	No data.
68609-97-2	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	No data.	No data.	No data.
13463-67-7	Titanium dioxide	PEL: 15 (dust) mg/m3	TLV: 10 mg/m3	No data.
1317-61-9	Iron oxide	No data.	No data.	No data.
1309-37-1	Iron oxide (Fe2O3)	PEL: 10 mg/m3	TLV: 5 mg/m3 (dust & fume)	No data.
51274-00-1	C.I. Pigment Yellow 42	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Eye Protection:	Safety glasses, or goggles.
Protective Gloves:	Nitrile rubber and Neoprene are recommended.
Other Protective Clothing:	Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.
Engineering Controls (Ventilation etc.):	Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.
Work/Hygienic/Maintenance Practices:	Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.
Environmental Exposure Controls:	Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Slight odor. Appearance: Liquid. (various pigmented colors)
Melting Point:	NE
Boiling Point:	NE
Decomposition Temperature:	NE
Autoignition Pt:	No data.
Flash Pt:	> 200.00 C (392.0 F) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: NE UEL: NE
Specific Gravity (Water = 1):	~ 1.32 - 1.33
Density:	~ 11.00 - 11.1 LB/GL
Vapor Pressure (vs. Air or mm Hg):	NE
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NE
Solubility in Water:	No data.
Solubility Notes:	Practically insoluble.
Saturated Vapor Concentration:	NE
Percent Volatile:	0.0 % by volume.
VOC / Volume:	NP

10. Stability and Reactivity

Reactivity: Avoid: acids, alkalis, oxidizing agents.

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: Extreme temperatures.

Incompatibility - Materials To Avoid: Avoid strong acids, bases, and oxidizing agents.

Hazardous Decomposition Or Byproducts: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.

Possibility of Hazardous Polymerization: Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Toxicological Information: May cause sensitization by skin contact.

Irritation or Corrosion: Skin Irritation. Irritating to eyes.

Symptoms related to Toxicological Characteristics: May cause redness, rash on skin.

Chronic Toxicological Effects: Skin sensitization.

12. Ecological Information

General Ecological Information: Avoid release to the environment. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: not reported, unknown.

13. Disposal Considerations

Waste Disposal Method: Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: (Non-Bulk)
Not Regulated.

(Bulk)
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

DOT Hazard Class: 9 CLASS 9
UN/NA Number: UN3082 **Packing Group:** III
Precautionary Label: Avoid skin and eye contact. May cause eye and skin irritation. May cause skin sensitization. Wear protective equipment and clothing. Always read MSDS/SDS before use.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.

UN Number: 3082 **Packing Group:** III
Hazard Class: 9 - CLASS 9
IMDG MFAG Number: FA,SF
IMDG EMS Page: Yes

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: (Non-Bulk)
Not Regulated.

(Bulk)
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
25068-38-6	4,4- (1-methylethylidene) bis with (chloromethyl) oxirane polymer	No	No	No
1317-65-3	Limestone	No	No	No
108-32-7	(+-)-Propylene carbonate, Anhydrous	No	No	No
68609-97-2	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	No	No	No
13463-67-7	Titanium dioxide	No	No	No
1317-61-9	Iron oxide	No	No	No
1309-37-1	Iron oxide (Fe2O3)	No	No	No
51274-00-1	C.I. Pigment Yellow 42	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes [ ] No Acute (immediate) Health Hazard
[X] Yes [ ] No Chronic (delayed) Health Hazard
[ ] Yes [X] No Fire Hazard
[ ] Yes [X] No Sudden Release of Pressure Hazard
[ ] Yes [X] No Reactive Hazard

16. Other Information

Revision Date: 05/28/2021

Hazard Rating System:

HMIS:

HEALTH	2
FLAMMABILITY	1
PHYSICAL	0
PPE	X

Additional Information About This Product: CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer: The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however the Key Resin Company makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.