

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

**Product Name: Killark[®] Celox[™]
KQS Series Sealant (Part B Curing Agent)**

Product ID numbers: KQS-050 ML, KQS-050 KIT, KQS-250 ML

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Chemically resistant sealant resin/encapsulant, Part B of 2-Part Sealant

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Responsible Party:

Killark Division, Hubbell Inc.
3940 Dr. Martin Luther King Dr
Saint Louis, MO 63113 USA
Tel: 1-800-545-5275
Tel: 1-314-531-0460
Email: killarkinfo@hubbell.com

1.4 Emergency telephone numbers

24-hour Number: 1-800-535-5053 (US & Canada) 1-352-323-3500 (International) (CONTRACT 80106)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Skin Irritation, Cat 2, H315

Skin Sens, Cat 1, H317

Eye Irritation, Cat 2, H319

STOT RE (oral), Cat 2, H373

2.2 Label elements

Contains: Polyamide resin; Benzyl alcohol; Mixed Cycloaliphatic amines; Tertiary amine, 1,3-bis[3-(Dimethylamino)propyl] urea; Triethylenetetramine



Pictograms:

Signal word: Warning

Hazard Statements:

H315	Causes skin irritation.
H317	May cause allergic skin reaction
H319	Causes serious eye irritation.
H373	May cause damage to the kidneys through prolonged or repeated exposure.

Precautionary Statements:

P260	Do not breathe vapors.
P264	Wash thoroughly after handling.

P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing and eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists. Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P314	Get medical attention if you feel unwell.
P501	Dispose of contents in accordance with local regulations.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>	<u>GHS/CLP Classification</u>
Polyamide resin	Proprietary	Proprietary	12 - 30	
Polymercaptan	Proprietary	--	15 - 20	Skin Irrit 2, H315 Eye Dam 2, H319
Benzyl alcohol	100-51-6	202-859-9	5 - 20	Acute Tox 4, H302, H332
Mixed Cycloaliphatic amines	Proprietary	Proprietary	4 - 15	
Tertiary amine	Proprietary	Proprietary	1 - 4	
1,3-bis[3-(Dimethylamino)propyl] urea	52338-87-1	257-861-2	1 - 3	Skin Irrit 2, H315 Eye Dam 2, H319 Acute Tox. 4, H312
Triethylenetetramine	112-24-3	203-950-6	< 2	Skin Corr. 1AB, H314 Skin Sens. 1 H317 Aquatic Chronic 3 H412
Organic acid	Proprietary	Proprietary	< 1	

4. First Aid Measures

4.1 Description of first aid measures

- Eye Contact:** Immediately flush eyes with large quantity of water for 15 minutes. Seek medical attention.
- Skin Contact:** Remove contaminated clothing; flush skin thoroughly with soap and water for at least 15 minutes. If irritation or allergic reaction occurs, seek medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
- Ingestion (Swallowing):** Wash out mouth with water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

5. Firefighting Measures

5.1 Extinguishing media:

Water fog or fine spray, dry chemical carbon dioxide, or foam.

5.2 Special hazards arising from the substance or mixture

Dense smoke is emitted when burned without sufficient oxygen.

Hazardous decomposition and by-products:

May generate ammonia gas. Oxides of carbon, oxides of sulfur, oxides of nitrogen. May contain other combustion products of varying composition which may be toxic or irritating.

5.3 Advice for firefighters

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Water fog may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture. Direct water stream may spread fire.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate area. Use appropriate safety equipment.

6.2 Environmental precautions:

Avoid release to the environment. Refer to Section 12 for more information.

6.3 Methods materials for containment and cleaning up:

Absorb spill with sand or absorbents. Residual resin may be removed using steam or hot soapy water. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Residual material can be removed with solvent.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes, or clothing. Uncured Hardener, Part B is a skin irritant and possible sensitizer. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Keep containers cool, dry, and away from sources of ignition. Keep containers and cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Contains no components with established Occupational Exposure Limit (OEL) values.

8.2 Exposure controls

Respiratory protection:

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

Protective gloves:

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include nitrile, neoprene, butyl rubber, PVC.

Eye protection:

Safety glasses should be worn.

Other protective equipment:

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties

Appearance:	White, viscous liquid.
Odor threshold:	Not available
pH:	Not available
Freezing point:	Not available
Boiling point:	Not available
Flash point:	Not available
Evaporation rate:	<1 (n-butyl acetate = 1)
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	3 mm Hg @ 20°C
Vapor density (Air = 1):	Not available
Specific gravity (H₂O = 1):	1.2 @ 20°C
Solubility in water:	Negligible
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

9.2 Other Information

Volatiles (Weight %):	0%
VOC Content:	0 g/l

10. Stability and Reactivity

10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid:

Avoid extreme heat and open flame.

10.5 Incompatible materials :

Avoid amines. Incompatible with bases, reducing agents. Can react to form N-Nitrosamines when product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Avoid reactive metals, sodium hypochlorite, organic acids, mineral acids and oxidizing agents.

Reaction with peroxides may result in violent decomposition of peroxide possible creating an explosion.

Unreacted product may slowly corrode copper, aluminum, zinc and galvanized surfaces.

10.6 Hazardous decomposition products:

Ammonia, oxides of carbon, oxides of sulfur, oxides of nitrogen and other organic substances may be formed during combustion or elevated temperature degradation.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Eye contact:

Causes eye irritation. Corneal edema may give rise to a perception of “blue haze” or “fog” around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere.

Skin contact:

May cause severe skin irritation, especially on prolonged contact. Prolonged or repeated skin exposure may cause skin sensitization.

Irritation and Sensitization Potential:

This product may be a sensitizer.

Inhalation (Breathing):

Low vapor pressure makes this route of exposure unlikely. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Ingestion:

Material is considered slightly toxic. Ingestion may cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea.

Toxicity to Animals:

	Polyamide resin	LD ₅₀ (oral rat) >2,000 mg/kg
	Benzyl alcohol	LC ₅₀ (inhl rat) >4.178 mg/l (OECD Test Guideline 403)
		LD ₅₀ (dermal rabbit) 2,000 mg/kg
	Mixed cycloaliphatic amines	LD ₅₀ (dermal rabbit) >1,000 mg/kg
	Triethylenetetramine	LD ₅₀ (oral rat) 2,780 mg/kg
		LD ₅₀ (dermal rabbit) 550 mg/kg
	Tertiary amine	LD ₅₀ (dermal rabbit) 1,242 mg/kg

Aspiration Hazard:

No aspiration hazard expected.

Chronic Exposure:

Reproductive Toxicity: Not available.

Mutagenicity: Not available.

Teratogenicity: Not available.

Specific Target Organ Toxicity (STOT) Not available.

Toxicologically Synergistic Products: Not available.

Carcinogenic Status: This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

12. Ecological Information

12.1 Aquatic Toxicity:

Benzyl alcohol	96 h LC ₅₀ Fathead minnow 460 mg/l
	96 h LC ₅₀ Bluegill sunfish: 10 mg/l
	72 h LC ₅₀ Algae 700 mg/l
Tertiary amine	96 h LC ₅₀ Fathead minnow 240 mg/l
	96 h LC ₅₀ Rainbow trout: 180 mg/l
	96 h EC ₅₀ Grass shrimp 718 mg/l
	72 h EC ₅₀ Scenedesmus subpicatus 84 mg/l

12.2 Persistence and degradability:

Not available.

12.3 Bioaccumulation

potential: Benzyl alcohol – low bioaccumulation potential
 Mixed cycloaliphatic amines – does not bioaccumulate

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB Assessment: This product is not, nor does it contain a substance that is a PBT or vPvB.

12.6 Other adverse effects: None known.

13. Disposal Considerations

Do not dump into sewer, on ground or into any body of water. Dispose of product in accordance with National and Local Regulations.

14. Transport Information

DOT: Not Regulated
UN Number: Not Listed
UN Proper Shipping Name: Not Applicable
Class and Subsidiary Risk: Not Applicable
Packing Group: Not Applicable
ICAO/IATA-DGR: Not Regulated
IMDG: Not Regulated
ADR/RID: Not Regulated

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

USA Federal and State

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	<u>Acute</u> Yes	<u>Chronic</u> Yes	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
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<u>Components</u>	CERCLA/SARA Sec 302 Hazardous Substance RQ	EHS TPQ	SARA Sec. 313 Toxic Release
Components are not affected by these Superfund regulations.			

NFPA Ratings:

Health:	2
Fire:	1
Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

European Union

All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada

All components are listed on the DSL inventory. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification: Class D, Division 2B

Australia

All components are listed on the AICS.

Product is classified as hazardous according to criteria of NOHSC Australia.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD₅₀ = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

Revision Date: June 6, 2017

Revision Number: 4

Supersedes: June 2, 2017

Other: Not Applicable

Indication of Changes: New product name, modifications to hazard and precaution phrases. Updated in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17)(WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.