

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 A Resin)**

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 A 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 |
| Eye Irritation, Cat 2A | H319 |
| Skin Sensitization, Cat 1 | H317 |

2.2 Label elements

Contains: Phenol-formaldehyde polymer glycidyl ether, Bisphenol A-epichlorohydrin polymer, Trimethylolpropane Triacrylate



Pictograms:

Signal word: Warning

Hazard Statements:

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| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |

Precautionary Statements:

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| 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. |

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| 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. |
| 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> |
|--|--------------|-------------|--------------|---|
| Phenol-Formaldehyde Polymer Glycidyl Ether | 28064-14-4 | -- | >90 | Skin Irrit 2, H315 Skin Sens 1, H317 Eye Irrit 2A, H319 |
| Bisphenol A-epichlorohydrin polymer | 25068-38-6 | 500-033-5 | 1 - 5 | Skin Irrit 2, H315 Skin Sens 1, H317 Eye Irrit 2A, H319 |
| Trimethylolpropane Triacrylate | 15625-89-5 | 239-701-3 | 1 - 5 | Skin Irrit 2, H315 Skin Sens 1, H317 Eye Irrit 2A, H319 |

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):** No emergency medical treatment necessary

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:

CO₂, CO, phenolics. 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. Prevent spill from entering drainage/sewer systems, waterways, basements or confined areas. 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 personal contact with the product. 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.

A Derived No Effect Level (DNEL) of 12.25 mg/m³ has been established for Acute Inhalation.

8.2 Exposure controls**Respiratory protection:**

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced. Use a respirator or gas mask with cartridges for organic vapors (NIOSH or CE approved) with particulate pre-filter, P100 or AP2.

Protective gloves:

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include nitrile (included in most kits), neoprene, ethyl vinyl alcohol (EVAL), PVC. Use a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374). NOTE: The selection of specific glove for the application should account for other chemicals in the environment, physical requirements and potential user reaction to the glove material.

Eye protection:

Safety glasses recommended.

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: Black liquid.

Odor threshold: Not available

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| pH: | Does not apply |
| Freezing point: | Not available |
| Boiling point: | Not available |
| Flash point: | Not available |
| Evaporation rate: | Not available |
| Flammability (solid, gas): | Not available |
| Upper/lower flammability or explosive limits: | Not available |
| Vapor pressure: | < 0.001 mm Hg @ 20°C |
| Vapor density (Air = 1): | >1 |
| Specific gravity (H₂O = 1): | 1.2 @ 25°C |
| Solubility in water: | Not available |
| 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 high temperatures above 300 °C (572 °F). Decomposition can occur above 350 °C (662 °F). Generation of gas during decomposition can cause pressure to build in closed systems.

10.5 Incompatible materials :

Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.

10.6 Hazardous decomposition products:

CO₂, CO, phenolics 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:

Direct eye contact with material or vapors may cause eye irritation.

Skin contact:

This product has moderate skin irritation potential. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Prolonged or repeated skin exposure may cause skin sensitization.

Irritation and Sensitization Potential:

May cause allergic skin reaction.

Inhalation (Breathing):

Low vapor pressure makes this route of exposure unlikely.

Ingestion:

Ingestion may cause irritation of the gastrointestinal tract.

Toxicity to Animals:

| | |
|--|--|
| Phenol-Formaldehyde Polymer Glycidyl Ether | LD ₅₀ (oral rat) >2,000 mg/kg |
| | LD ₅₀ (dermal rabbit) 2,000 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 Toxicity:

Aquatic Toxicity: May be toxic to aquatic organisms.

12.2 Persistence and degradability: Based on stringent OECD test guidelines, this material cannot be considered readily biodegradable. Biodegradability depends on environmental conditions.

12.3 Bioaccumulation potential: Bioconcentration potential is moderate.

12.4 Mobility in soil: Potential for mobility in soil is low..

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

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|-----------------------------------|----------------|
| 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> No | <u>Fire</u> No | <u>Pressure</u> No | <u>Reactive</u> No |
|---|---------------------|----------------------|-------------------|-----------------------|-----------------------|

| | | | |
|---|--|-----------------------|---|
| <u>Components</u> | CERCLA/SARA Sec 302 <u>Hazardous Substance RQ</u> | <u>EHS TPQ</u> | SARA Sec. 313 <u>Toxic Release</u> |
| The components of Resin - Part A 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.

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) |

Product Name: Killark® Celox™ KQS Series Sealant (Part A)

Revision Date: June 6, 2017

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.