



## SAFETY DATA SHEET

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Revision Number: 2

### 1. IDENTIFICATION

#### Product identifier

**Product Name:** FLEXIBLE SEAL CARTRIDGE CLEAR  
**Product code:** FSCCLR

#### Other means of identification

**Synonyms** No information available

#### Application

**Recommended Use** Adhesives and/or Sealants  
**Uses advised against** For industrial use only

#### Supplier/Manufacturer:

**Supplier:**  
 EPMAR Corporation  
 13240 E. Barton Circle  
 Whittier, CA 90605-3254  
 Phone: 562-946-8781  
 FAX: 562-944-9958  
 E-mail: she@quakerchem.com  
 (For Health and Safety Questions)

#### **Emergency telephone number:**

\* 24 HOUR TRANSPORTATION:  
 \*\*CHEMTREC: 1-800-424-9300  
 +703-527-3887 (Call collect outside of US)  
 \* 24 HOUR EMERGENCY HEALTH & SAFETY:  
 \*\* (800) 523-7010 (Within US only) Outside of US call (703)  
 527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Skin Sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

**Label Elements**

**Emergency Overview**

**DANGER**

**Hazard Statements**  
 Causes skin irritation  
 May cause an allergic skin reaction  
 Suspected of damaging fertility or the unborn child  
 May cause drowsiness or dizziness  
 Causes damage to organs through prolonged or repeated exposure



**Appearance** Colorless                      **Physical State** Semi-Solid, Paste                      **Odor** Solvent

**Precautionary Statements - Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

- IF exposed or concerned: Get medical advice/attention
- Specific treatment (see First Aid)
- IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Precautionary Statements - Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

Harmful to aquatic life.

**Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%
Toluene	108-88-3	40 - 50%
Silicon dioxide	7631-86-9	1 - 5%
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

<b>General advice:</b>	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin contact:</b>	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
<b>Note to physician:</b>	This product contains toluene. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision.
<b>Medical condition aggravated by exposure:</b>	Dermatitis and asthma.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media:</b>	Carbon dioxide (CO2) Dry chemical Foam
<b>Specific hazards:</b>	Do not allow material to contaminate ground water system.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Cool containers / tanks with spray water.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Use personal protective equipment. Wash thoroughly after handling. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Use spark-proof tools and explosion-proof equipment.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	Use non-sparking equipment. Sweep up and shovel into suitable containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 7. HANDLING AND STORAGE

### Handling

**Technical measures/precautions:** Provide sufficient air exchange and/or exhaust in work rooms.

**Safe handling advice:** Keep away from open flames, hot surfaces and sources of ignition. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

### Storage

**Technical measures/storage conditions:** Store at room temperature in the original container.

**Incompatible products:** Strong oxidizing agents

**Safe storage temperature:** 40 - 100 ° F

**Shelf life:** 2 years

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Toluene	20 ppm (TWA)	200 ppm	100 ppm (TWA) 375 mg/m <sup>3</sup> (TWA) 150 ppm (STEL) 560 mg/m <sup>3</sup> (STEL)
Silicon dioxide	None	None	6 mg/m <sup>3</sup> (TWA)

**Engineering measures:** Ensure adequate ventilation

## Personal Protective Equipment:

- General:** Provide easy access to eyewash/safety shower facilities.
- Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, respiratory protection may be required. Contact your site safety representative for proper respirator selection.
- Eye protection:** Wear safety glasses with side shields (or goggles)
- Hand protection:** Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your safety department for specific recommendations
- Skin and body protection:** Wear protective clothing and appropriate footwear necessary for the risk of exposure. Contact your health and safety department for specific recommendations
- Hygiene measures:** Handle in accordance with sound chemical hygiene practices. Wear the appropriate PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke while using chemicals.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Semi-Solid, Paste
<b>Appearance</b>	Colorless
<b>Odor</b>	Solvent
<b>Odor Threshold</b>	No information available
<b>pH concentrate:</b>	No information available
<b>pH Dilution</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Boiling Point/Range</b>	110 °C / 230 °F
<b>Flash Point</b>	4 °C / 40 °F (Toluene)
<b>Method</b>	Tag closed cup
<b>Evaporation rate</b>	No information available
<b>Flammability Limits in Air upper flammability limit</b>	No information available

lower flammability limit	No information available
VOC Content Product (lb/gal)	3.28
VOC Content Product (g/L)	392.95
VOC less water and exempt (lb/gal)	3.28
VOC less water and exempt (g/L)	392.95
HAP Content Product (g/L):	392.95
HAP Content Product (lb/gal)	3.27
Solids (% w/w):	59.57
Solids (% v/v):	54.82
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 C)	No information available
Density @ 25 ° C. (g/cc):	0.971
Bulk Density @ 77° F. (lb/gal):	8.1
Water Solubility	No information available
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Molecular Weight	No information available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Heat, flames and sparks.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides. Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous Polymerization:** No information available.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Contact with eyes may cause irritation.

**Skin Contact** Irritating to skin. May cause sensitization by skin contact.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluene	= 2600 mg/kg ( Rat ) Oral LD50 Rat 2600 mg/kg (Source: JAPAN_GHS)	12124 mg/kg ( Rat ) 8390 mg/kg ( Rabbit )	26700 ppm ( Rat ) 1 h
Silicon dioxide	> 5000 mg/kg ( Rat ) Oral LD50 Rat >5000 mg/kg (Source: IUCLID)	> 2000 mg/kg ( Rabbit ) Dermal LD50 Rabbit >2000 mg/kg (Source: IUCLID)	>2.2 mg/L ( Rat ) 4 h
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	-	-	-

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

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

Chemical Name	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Toluene	Group 3	Not listed	Not listed
Silicon dioxide	Group 3	Not listed	Not listed
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	Not listed	Not listed	Not listed

**Sensitization** Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

**Mutagenic effects:** No information available.

**Reproductive Toxicity** Product contains a component that is classified as a reproductive hazard. No testing has been conducted on the product itself.

**Developmental Toxicity** No information available.

<b>Teratogenic</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	Central nervous system (CNS).
<b>Specific target organ systemic toxicity (repeated exposure)</b>	May cause disorder and damage to the, Central nervous system (CNS), Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	No information available.

**Additional information on toxicological effects**

No information available

Over exposure to toluene has been associated with permanent brain damage characterized by disturbances in gait, personality changes and loss of memory. Toluene has been found to cause cardiac sensitivity, effects on hearing, central nervous system damage, respiratory tract damage and mild reversible liver effects in laboratory animals. Toluene may be harmful to the human fetus based on positive test results with laboratory animals.

**12. ECOLOGICAL INFORMATION**

Chemical Name	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Toluene	15.22 - 19.05 mg/L LC50 = 12.6 mg/L LC50 5.89 - 7.81 mg/L LC50 14.1 - 17.16 mg/L LC50 = 5.8 mg/L LC50 11.0 - 15.0 mg/L LC50 = 54 mg/L LC50 = 28.2 mg/L LC50 50.87 - 70.34 mg/L LC50	5.46 - 9.83mg/L =11.5mg/L > 433 mg/L EC50 = 12.5 mg/L EC50	EC50 (Daphnia magna - 48h) = 5.46 - 9.83 mg/L EC50 (Daphnia magna - 48h) = 11.5 mg/L
Silicon dioxide	= 5000 mg/L LC50	=7600mg/L = 440 mg/L EC50	EC50 (Ceriodaphnia dubia - 48h) = 7600 mg/L
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	No data	No data	No data

35.59% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Octanol/water partition coefficient
Toluene	2.7
Silicon dioxide	-
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	-

**Mobility:** No data available

**Ozone:** No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Use non-sparking equipment Sweep up and shovel into suitable containers for disposal Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

**Chemical Name** Toluene  
108-88-3

<b>US EPA Waste Number</b>	D001
<b>RCRA - Hazardous Constituents - Appendix:</b>	U220

### 14. TRANSPORT INFORMATION

**U. S. DEPARTMENT OF TRANSPORTATION:**

**Proper shipping name:** Not regulated

**TDG (CANADA):**

**Proper shipping name:** Not regulated

**IMDG/IMO:**

**Proper shipping name:** Not regulated

**IATA/ICAO:**

**Proper shipping name:** Not regulated

### 15. REGULATORY INFORMATION

**Federal Regulations**

**OSHA Hazard Communication Standard:** This product is considered to be hazardous under the OSHA Hazard Communication Standard.

**CERCLA/SARA Information:**

**SARA (311, 312) hazard class:** See GHS Classification in Section 2 for hazard class information.

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Toluene	1000 lb	Not listed	1.0 %
Silicon dioxide	Not listed	Not listed	Not listed
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	Not listed	Not listed	Not listed

**Clean Air and Clean Water Acts:**

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Toluene	Present	Listed	Listed	Listed
Silicon dioxide	Not listed	Not listed	Not listed	Not listed
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	Not listed	Not listed	Not listed	Not listed

**U.S. STATE REGULATIONS (RTK):**

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Toluene	developmental toxicity	Environmental hazard	100 lb	1866	Present
Silicon dioxide	Not Listed	Present	Not Listed	1655	Present
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**California Proposition 65 Status:** May contain trace amounts of listed chemicals: benzene and methanol.

**RCRA Status:** Listed in Section 13

**CANADIAN REGULATIONS:**

Chemical Name	CEPA Schedule I	Challenge Substances
Toluene	Listed	Not listed
Silicon dioxide	Not listed	Not listed
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	Not listed	Not listed

**INVENTORY STATUS:**

**United States TSCA Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

**16. OTHER INFORMATION**

**Sources of key data used to compile** Material safety data sheets of the ingredients. the data sheet:

**Prepared by:** Safety, Health and Environmental Department

**Revision Date:** 01/04/2018

**Reason for revision:** This data sheet contains changes from the previous version in section(s) 9, 3.

**Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.**

**Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed

to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

**End of Safety Data Sheet**