



SAFETY DATA SHEET

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1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: FLEXIBLE SEAL CLEAR
Product code: FSC-60

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 2
Chronic aquatic toxicity	Category 3

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
 May cause damage to organs through prolonged or repeated exposure
 Harmful to aquatic life with long lasting effects
 May be fatal if swallowed and enters airways



Appearance Colorless

Physical State Semi-Solid

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
 Avoid release to the environment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see First Aid on this label)
 IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash 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

None known.

Unknown acute toxicity

0.408005% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Toluene	108-88-3	40 - 50%
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

General advice:	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
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact:	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
Ingestion:	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
Inhalation:	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.
Note to physician:	This product contains toluene. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision.
Medical condition aggravated by exposure:	Dermatitis and asthma.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	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.
Environmental precautions:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
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).

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

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

Engineering measures:	Ensure adequate ventilation
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Personal Protective Equipment:

General:	Eye Wash and Safety Shower
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Respiratory protection:	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.
Eye protection:	Safety glasses with side-shields
Hand protection:	Neoprene gloves
Skin and body protection:	Long sleeved clothing
Hygiene measures:	Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Semi-Solid
Appearance	Colorless
Odor	Solvent
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	110 °C / 230 °F
Flash Point	4.44 °C / 40 °F
Method	PMCC (Pensky-Martens Closed-Cup)
Evaporation rate	No information available
Flammability Limits in Air	
upper flammability limit	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	Insoluble
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:	Not applicable.

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.

Components	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
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

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Toluene	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.

Teratogenic

No information available.

Specific target organ systemic toxicity (single exposure)

Central nervous system (CNS).

Specific target organ systemic toxicity (repeated exposure)

May cause disorder and damage to the, Central nervous system (CNS), Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

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

Components	Ecotoxicity - Fish Species	Ecotoxicity - Freshwater	Ecotoxicity - Water Flea
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	Data:	Algae Data:	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
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	No data	No data	No data

58.542% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Components	Octanol/water partition coefficient
Toluene	2.7
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)

Components Toluene
108-88-3

US EPA Waste Number	D001
RCRA - Hazardous Constituents - Appendix:	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:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): Yes
Flammability: Yes
Pressure: No
Reactivity: No

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

Clean Air and Clean Water Acts:

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

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Toluene	developmental toxicity	Environmental hazard	100 lb	1866	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:**

Components	CEPA Schedule I	Challenge Substances
Toluene	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/NDL 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: 12/02/2016

Reason for revision: New Format.

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