



MATERIAL SAFETY DATA SHEET

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Version: 0

Revision date:

1. COMPANY AND PRODUCT IDENTIFICATION

Product name: FLEXIBLE SEAL ANY COLOR

Product code: AC-FSC60

Supplier: Erie Metal Specialties
13311 Main Road
Akron, NY 14001
Phone: 716-542-3991
Fax: 716-542-3996
sales@eriemetal.com
www.eriemetal.com

Emergency telephone number:
* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
703-527-3887 (Call collect outside of US)

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	CAS No.	Weight %	OSHA Ceiling Limits	OSHA TWA (final):	ACGIH Ceiling Limits	ACGIH Exposure Limits:	Vendor Exposure Limits:
Toluene	108-88-3	40 - 50%	300 ppm	200 ppm		20 ppm	

3. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes
May cause skin irritation and/or dermatitis.
Harmful by inhalation and if swallowed.

Signal word: WARNING

Principle routes of exposure: Eyes, skin and inhalation.

Eye contact: Avoid contact with eyes. Irritating to eyes.

Skin contact: Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation: Avoid breathing vapors or mists. May cause irritation of respiratory tract. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion and unconsciousness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination, and fatigue) Risk of product entering the lungs on vomiting after ingestion.

Physico-chemical properties: No hazards resulting from material as supplied.

4. FIRST AID MEASURES

General advice: Call a physician immediately.
Show this safety data sheet to the doctor in attendance.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Consult a physician if necessary.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

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: Treat symptomatically.

Medical condition aggravated by exposure: Dermatitis.

5. FIRE-FIGHTING MEASURES

Flash Point (°C): NA (Classified as a solid) **Flash point (°F):** NA (Classified as a solid) **Flash Point Method:** Not applicable

Flammable limits in air - lower (%): Not determined **Flammable limits in air - upper (%):** Not determined

Suitable extinguishing media: Use dry chemical, CO₂, water spray or 'alcohol' foam.

Unusual hazards: None known

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: Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes Do not breathe vapour/dust.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: 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: 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. Keep container tightly closed. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.. Keep product and empty container away from heat and sources of ignition.

Incompatible products: strong oxidizing agents

Safe storage temperature: 40-100 ° F

Shelf life: 2 years

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Ceiling Limits	ACGIH Exposure Limits:	OSHA Ceiling Limits	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Toluene		20 ppm	300 ppm	200 ppm	100 ppm 375 mg/m ³ 150 ppm STEL 560 mg/m ³ STEL	None

Engineering measures: Ensure adequate ventilation.

Personal Protective Equipment

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH/MSHA certified respirator with organic vapor/P100 filter should be worn.

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

Eye protection: Goggles.

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state:	Paste
Color:	various
Odour:	Solvent, Characteristic
Boiling point/range (°C):	110.6
Boiling point/range (°F):	231
Vapour density:	Heavier than air
Vapour pressure:	Not determined
VOC Content Product (g/L)	388 g/L
VOC Content Product (lb/gal)	3.24
VOC less water and exempt (lb/gal)	3.24
VOC less water and exempt (g/L)	388
HAP Content Product (g/L):	388 g/L
Solubility:	Insoluble
Evaporation rate:	Slower than ether
pH:	NA
Flash Point (°C):	NA (Classified as a solid)
Flash point (°F):	NA (Classified as a solid)
Decomposition temperature:	Not determined
Auto-ignition temperature (°C):	Not determined
Density @ 15.5 ° C (g/cc) :	1.0
Bulk density @ 60 ° F (lb/gal):	8.35
Solids (% by weight):	58 - 62%
Volatiles (% by volume) :	42 - 46%
Partition coefficient (n-octanol/water, log Pow):	Not determined
Explosive properties:	
- upper limit:	No data available
- lower limit:	No data 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, Smoke

Polymerisation

Not applicable

11. TOXICOLOGICAL INFORMATION

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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.

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

Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
Toluene	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	12.5mg/LInhalation LC50Rat 12124mg/kgDermal LD50Rat 636mg/kgOral LD50Rat 8390mg/kgDermal LD50Rabbit 26700ppmInhalation LC50Rat

12. ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: Not Determined

Component Information

Toluene

Ecotoxicity - Fish Species Data:
 LC50 (Pimephales promelas - 96h) = 15.22-19.05 mg/L
 LC50 (Pimephales promelas - 96h) = 12.6 mg/L
 LC50 (Oncorhynchus mykiss - 96h) = 5.89-7.81 mg/L
 LC50 (Oncorhynchus mykiss - 96h) = 14.1-17.16 mg/L
 LC50 (Oncorhynchus mykiss - 96h) = 5.8 mg/L
 LC50 (Lepomis macrochirus - 96h) = 11.0-15.0 mg/L
 LC50 (Oryzias latipes - 96h) = 54 mg/L
 LC50 (Poecilia reticulata - 96h) = 28.2 mg/L
 LC50 (Poecilia reticulata - 96h) = 50.87-70.34 mg/L
 LC50 (Pimephales promelas - 96h) = 15.22-19.05 mg/L

Ecotoxicity - Freshwater Algae Data:
 EC50 (Selenastrum capricornutum - 96h) = >433 mg/L

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: Take up mechanically and collect in suitable container for disposal.

Components

Toluene

108-88-3

US EPA Waste Number

D001

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

CANADIAN REGULATIONS:

Canada - WHMIS Classification Information:

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Canadian Product Classification: Class D2B

Product Classification Graphic(s):



Component Classification Data:

Toluene - 108-88-3

WHMIS hazard class:

B2, D2A, D2B

Canada - National Pollution Release Inventory:

Part 1, Group 1 Substance
Part 5 Substance
Part 1, Group 1 Substance

U.S. FEDERAL REGULATIONS:

OSHA Hazard Communication Standard:

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

Toluene - 108-88-3

CERCLA/SARA - Hazardous Substances and their Reportable Quantities: 1000 lb

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

Toluene - 108-88-3

CERCLA/SARA 313 Emission reporting: Listed
CAA - 1990 Hazardous Air Pollutants: Listed
Clean Water Act - Hazardous Substances: Listed
Clean Water Act - Priority Pollutants: Listed

RCRA Status: Listed in Section 13

U.S. STATE REGULATIONS
(RTK):

Listed component present: toluene

Toluene - 108-88-3

California Prop 65: Present
MARTK: Present
Michigan critical materials register list: 100 lb Annual usage threshold
NJRTK: 1866
PARTK: Environmental hazard
Present

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory: This product complies with TSCA

Canada DSL Inventory List - This product complies with DSL

EC EINECS/ELINCS/NLP list: Compliance has not been determined

Inventory - Japan - Existing and New Chemical Substances (ENCS): Compliance has not been determined.

16. OTHER INFORMATION

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

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Reason for revision: This data sheet contains changes from the previous version in section(s) 15 and 16

HMIS classification:**Health:**
2**Flammability:**
1**Reactivity:**
0**Personal Protection:**
H**HMIS Use Dilution****Health**
--**Flammability**
--**Reactivity**
--**Personal Protection**
--**NFPA rating:****Health:**
2**Flammability:**
1**Reactivity:**
0**Special:**
NA

* Indicates possible chronic health effect

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

Disclaimer

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End of Safety Data Sheet