

SAFETY DATA SHEET

Date Prepared : 11/28/2017

MSDS No : F2100

Date Revised : 11/28/2017

Revision No : 12

MIRACLE FOAMSEAL F2100

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MIRACLE FOAMSEAL F2100**MANUFACTURER**

ITW Polymers Sealants North America
56 Air Station Industrial Park
Rockland, MA 02370

Product Stewardship: (781) 878-7015**24 HR. EMERGENCY TELEPHONE NUMBERS**

CHEMTREC (US Transportation): (800) 424-9300

COMMENTS: MIRACLE and FOAMSEAL are registered trademarks of Illinois Tool Works, Inc.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Target Organ Toxicity (Repeated exposure), Category 2

GHS LABEL

Health
hazard

SIGNAL WORD: WARNING**HAZARD STATEMENTS**

H373: May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P314: Get medical advice/attention if you feel unwell.

Disposal:

P501: Dispose of contents/container according to local, regional, national, and international regulations.

POTENTIAL HEALTH EFFECTS**EYES:** May cause eye irritation upon contact.**SKIN:** May cause skin irritation.**INGESTION:** May cause damage to mucous membranes if swallowed.**INHALATION:** Short-term harmful health effects are not expected from vapor generated at ambient temperatures.**ROUTES OF ENTRY:** Eye and Skin Contact, Inhalation and Ingestion

3. COMPOSITION / INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

Date Prepared : 11/28/2017

MSDS No : F2100

Date Revised : 11/28/2017

Revision No : 12

MIRACLE FOAMSEAL F2100

Chemical Name	Wt.%	CAS
Polyalkylene oxide polyol	45 - 55	52019-35-9
Diethylene Glycol	3 - 10	111-46-6
N, N Dimethylcyclohexyl Amine	< 5	98-94-2
Silicone Surfactant	< 1	Mixture

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

SKIN: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INGESTION: Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Applicable

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical or foam.

EXPLOSION HAZARDS: Decomposition products may cause a health hazard.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. After water evaporates, remaining material will burn.

SENSITIVE TO STATIC DISCHARGE: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, nitrogen oxide, ammonia, aldehydes, ketones, organic fragments

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the appropriate personal protective equipment (PPE) should participate in spill response and clean-up.

LARGE SPILL: Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Know and prepare for spill response before using or handling this product. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled containers for disposal. Use appropriate PPE. Place absorbent diking materials in covered containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

7. HANDLING AND STORAGE

SAFETY DATA SHEET

Date Prepared : 11/28/2017
MSDS No : F2100
Date Revised : 11/28/2017
Revision No : 12

MIRACLE FOAMSEAL F2100

GENERAL PROCEDURES: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation).

HANDLING: Follow all SDS/label precautions even after container is emptied because they may retain product residues. Containers should be tightly closed to prevent contamination with foreign materials and moisture. Employee education and training in the safe handling of this product are required under the Federal OSHA Hazard Communication Standard. Avoid contact of liquid with eyes and prolonged skin exposure.

STORAGE: Keep container closed when not in use. Store in a dry, well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

STORAGE TEMPERATURE: 18.3°C (65°F) Minimum to 35°C (95°F) Maximum

SHELF LIFE: 6 months from manufacture date

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SAFETY DATA SHEET

Date Prepared : 11/28/2017
MSDS No : F2100
Date Revised : 11/28/2017
Revision No : 12

MIRACLE FOAMSEAL F2100

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Polyalkylene oxide polyol	OSHA PEL	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
	ACGIH TLV	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
Diethylene Glycol	OSHA PEL	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
	ACGIH TLV	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
N, N Dimethylcyclohexyl Amine	OSHA PEL	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
	ACGIH TLV	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
Silicone Surfactant	OSHA PEL	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
	ACGIH TLV	TWA	NL [1]	NL [1]
		STEL	NL [1]	NL [1]
Footnotes:				
1. NL = Not Listed				

ENGINEERING CONTROLS: Natural ventilation should be adequate under normal conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields, goggles, or a full-face shield. Do not wear contact lenses.

SKIN: Wear chemical resistant gloves such as latex, butyl rubber, nitrile rubber, polyvinyl alcohol. Wear chemical protective clothing & boots to prevent repeated or prolonged skin contact.

RESPIRATORY: This material does not have established exposure limits. Wear a positive pressure air-supplied respirator in situations where there may be potential for airborne exposure.

WORK HYGIENIC PRACTICES: Use good hygiene practices when handling this material. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slight Amine Odor

SAFETY DATA SHEET

Date Prepared : 11/28/2017
MSDS No : F2100
Date Revised : 11/28/2017
Revision No : 12

MIRACLE FOAMSEAL F2100

ODOR THRESHOLD: Not Determined
COLOR: Amber
pH: Not Determined
PERCENT VOLATILE: Not Determined
FLASHPOINT AND METHOD: Not Determined
FLAMMABLE LIMITS: N/D
AUTOIGNITION TEMPERATURE: Not Applicable
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
BOILING POINT: Not Determined
FREEZING POINT: Not Determined
MELTING POINT: Not Determined
POUR POINT: Not Determined
SOLUBILITY IN WATER: Not Determined
PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Determined
EVAPORATION RATE: Not Determined
DENSITY: 8.670 lbs/gal
PARTICLE SIZE: Not Determined
SPECIFIC GRAVITY: 1.04
VISCOSITY: Not Determined
MOLECULAR WEIGHT: Not Determined
(VOC): 19.2 gr/L EPA Method 24 VOC
OXIDIZING PROPERTIES: Not Determined

10. STABILITY AND REACTIVITY

REACTIVITY: Yes
HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.
STABILITY: Stable.
POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapors and mist, traces of HCN. If vapor heated with peroxides present, violent decomposition can occur.
INCOMPATIBLE MATERIALS: Alkali or alkaline earth metals, strong acids, copper, brass, elastomers

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

SAFETY DATA SHEET

Date Prepared : 11/28/2017

MSDS No : F2100

Date Revised : 11/28/2017

Revision No : 12

MIRACLE FOAMSEAL F2100

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Polyalkylene oxide polyol	> 2000 mg/kg	> 2000 mg/kg	No data
Diethylene Glycol	12565 mg/kg	11890 mg/kg	No data
N, N Dimethylcyclohexyl Amine	272 mg/kg (rats)	> 400 mg/kg (rabbits)	9 mg/L (1-hr dose)
Silicone Surfactant	No data	No data	No data

SERIOUS EYE DAMAGE/IRRITATION: Mild to moderate eyes and skin irritation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product contains components that may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Contains components that are potentially toxic to freshwater and saltwater ecosystems.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

PACKING GROUP: N/A

MARINE POLLUTANT #1: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Polyalkylene oxide polyol	52019-35-9
Diethylene Glycol	111-46-6
N, N Dimethylcyclohexyl Amine	98-94-2
Silicone Surfactant	Mixture

CLEAN AIR ACT

Chemical Name	Wt.%	CAS
Diethylene Glycol	3 - 10	111-46-6

SAFETY DATA SHEET

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Date Revised : 11/28/2017
Revision No : 12

MIRACLE FOAMSEAL F2100

RCRA STATUS: The components of this product are not listed as hazardous wastes. To the best of our knowledge, this product does not meet the criteria of a hazardous waste if discarded in its purchased form. However, under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether a product meets any of the criteria for a hazardous waste. This is because product uses, transformation, mixture processes, etc. may render the resulting materials hazardous.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

16. OTHER INFORMATION

Date Revised: 11/28/2017

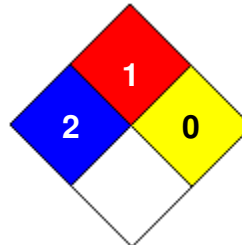
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 10/15/2014 MSDS. Revised: **Section 1:** Date Issued.

HMIS RATING

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



GENERAL STATEMENTS: Keep out of reach of children
 For professional or industrial use only

MANUFACTURER DISCLAIMER: This document may be used to comply with OSHA's Hazardous Communication Standard, 29 CFR 1910.1200.

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his/her evaluation of the product's hazards and safety precautions to be taken in its use. The data in this SDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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