

Material Safety Data Sheet

WATER CHILLER TREATMENT

Data Prepared: March 20, 2014

SECTION I: IDENTIFICATION OF THE SUBSTANCE & THE COMPANY

Product Name: WATER CHILLER TREATMENT

Manufactured for: Tormach, Inc.
Waunakee, WI 53597
Telephone No: (608) 849-8381

General Description: Silicone emulsion Polydimethylsiloxane
Physical Form: Liquid
Color: white/opaque
Odor: Characteristic Odor

HMIS Profile: Health: 0 Flammability: 0 Reactivity: 0
NFPA Profile: Health: 0 Flammability: 0 Reactivity: 0

SECTION II: HAZARDS IDENTIFICATION

Emergency Overview

Attention: This material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200

Potential Health Effects:

Ingestion: No adverse effects are expected under normal condition of use. Repeated ingestion or swallowing large amounts may injure internally.

Skin: No adverse effects are expected under normal condition of use.

Eye: No adverse effects are expected under normal condition of use.

Inhalation: No adverse effects are expected under normal condition of use.

Medical conditions aggravated by exposure: No known applicable information.

Subchronic (Target Organ): None known

Chronic Effects / Carcinogenicity: This product or one its ingredients at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC or OSHA.

Routes of Exposure: No anticipated routes of exposure.

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Description	CAS No.	Weight %
Polydimethylsiloxane	63148-62-9	20 to 40%
Water	7732-18-5	40 to 60%
Ethoxylated Isoalcohols	78330-21-9	1 to 5%

SECTION IV: FIRST AID MEASURES

Ingestion: Do NOT induce vomiting. If victim is conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Obtain medical attention.
Eye Contact: Immediately flush with water and consult a physician
Skin Contact: Remove from skin and immediately flush with water. Consult a physician if irritation develops or persists.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration with a barrier device. Get medical attention.
NOTE to Physician: Treatment is symptomatic and supportive.

SECTION V: FIRE FIGHTING MEASURES

Flash Point: A flashpoint cannot be detected up to the boiling point, neither by electro nor gas ignition.

Flammability Limits in Air - Lower: Not applicable
Flammability Limits in Air - Upper: Not applicable

Sensitivity to Mechanical Impact: No
Sensitivity to Static Discharge: Not expected

Extinguishing Media: All standard extinguishing agents are suitable.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Hazardous decomposition products: Thermal breakdown of this product during fire or very high heat conditions may evolve carbon oxides, silicon dioxide and formaldehyde.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Determine whether to evacuate or isolate the area according your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

SECTION VII: HANDLING AND STORAGE

Do Not Freeze. Stir well before using.

Keep Away from Children.

Attention: Not for injection into humans. May generate formaldehyde at temps > 150C (300F). See Section 10 of MSDS for details.

Storage: Store at room temperature in the original container. Keep container closed. Recommended storage is between 35F (2C) to 80F (26C).

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain materials regulated under SARA Title III section 313

Engineering controls

Eyewash stations, Showers. Use only in well-ventilated areas.

Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with SHA regulations (see 29CFR 1910.134).

Protective Gloves: Impermeable or chemical resistant gloves.

Eye and Face Protection: Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value

Absence of values indicates none found.

PEL-OSHA Permissible Exposure Limit; TLV-ACGIH Threshold Limit Value; TWA – Time Weighted Average; INTL REL- International Recommended Exposure Limit

SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

Boiling Point:	ca. 212F or 100C
Vapor Pressure (20°C) :	< 20MM Hg
Vapor density (air=1):	> 1
Freezing Point:	ca. 0C, 32F
Physical State:	liquid
Odor:	mild
Color:	milky-white
Evaporation Rate (butyl acetate=1):	< 1
Specific Gravity (water-1):	ca 1.00
Density:	1,000g/cm3
Acid/Alkalinity (MEQ/G):	no data available
pH:	no data available
Solubility in water:	Soluble

SECTION X: STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Hazardous polymerization will not occur.
Materials to avoid:	Keep away from materials that react with water. Keep away from strong oxidizing agents.

SECTION XI: TOXICOLOGICAL INFORMATION

Special Hazard Information on Components
No known applicable information.

SECTION XII: ECOLOGICAL INFORMATION

No known applicable information

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal Method: Disposal should be in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)
Not regulated

Ocean Shipment (IMDG)
Not regulated

Air Shipment (IATA)
Not regulated

SECTION XV: REGULATORY INFORMATION

SARA (313) Chemical: This product does not contain materials regulated under SARA Title III section 313.

California Proposition 65: This product does not contain any chemicals known to to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI: OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.