

# Houghton Chemical Corporation

## Safety Data Sheet

### PUROBROM® DEFOAMER



<b>Section 1 - Identification</b>			
Manufacturer Address	Houghton Chemical Corporation 52 Cambridge Street, Allston, MA 02134 1-617-254-1010 or 1-800-777-2466		
Emergency Telephone	<b>CHEMTREC: 1-800-424-9300</b>		
Chemical Name & Synonyms	Mixture of silicone and polyglycol		
Chemical Family	aqueous solution of silicone and polyglycol		
Recommended Use	Antifoaming Applications		
Restrictions on Use	For Industrial Use Only		
<b>Section 2 – Hazard(s) Identification</b>			
Hazard Classification	OSHA: This product is not considered hazardous under 29CFR1910.1200; GHS: This product is not considered hazardous.		
Signal Word	Caution		
Hazard Statement	Not Applicable		
Pictogram Description	Not Applicable		
Precautionary Statement	<p>Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing vapor. Avoid release to the environment.</p> <p>Do not leave container open. Do not store in unlabeled containers. Do not eat, drink or smoke when using this product.</p> <p>Loosen bung cautiously to relieve any pressure. Never use pressure to empty.</p> <p>IF SWALLOWED: Do NOT induce vomiting. Get medical attention if you feel unwell.</p> <p>IF IN EYES: Flush eyes with plenty of water for at least 15 minutes.</p> <p>IF EYE IRRITATION PERSISTS: Get medical attention.</p> <p>IF ON SKIN: Take off contaminated clothing. Wash with soap and plenty of water. Wash contaminated clothing before reuse.</p> <p>FOR LEAKS AND SPILLS: Eliminate all ignition sources. Stop leak if present and safe to do so. Keep material out of sewers and other public water systems. Contain spill to keep material from spreading. Collect spillage &amp; absorb with inert material. Store collected material in approved containers for proper disposal or recovery.</p> <p>IN CASE OF FIRE: Use alcohol-resistant foam, dry chemical, sand or carbon dioxide to extinguish.</p>		
Any other Hazard not otherwise classified	Not Applicable		
<b>Section 3 – Composition and Information on Ingredients</b>			
Chemical Name	Common name and synonyms	CAS #	% by weight
Methyl-oxirane polymer with oxirane	Polyglycol	9003-11-6	40-65%
Polydimethylsiloxane Compound	Silicone Emulsion	Mixture	3-10%
Water	N/A	7732-18-5	30-55%
N/A	N/A	N/A	N/A
<b>Section 4 – First aid Measures</b>			
<b>Symptoms of Exposure</b>			
Acute	No significant symptoms are expected from accidental exposure to this product.		
Delayed	No significant symptoms are expected from accidental exposure to this product.		
Inhalation	Product is not expected to pose an inhalation hazard under normal conditions of use.		
Skin	Irritation of the affected area may result.		
Eye Contact	Irritation of the affected area may result.		
Ingestion	May cause gastrointestinal distress if swallowed.		
<b>First Aid Instructions</b>			
Inhalation	Remove affected individual to fresh air and seek medical attention.		
Skin	Remove contaminated clothing. Wash affected area with soap and water. If irritation develops, seek medical attention.		

Eye Contact	Flush eyes with large amounts of water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	DO NOT induce vomiting. Rinse mouth with water; if person affected is conscious, have the person drink plenty of water. Seek medical attention immediately.
Other	Consult a physician. Show safety data sheet to the doctor in attendance.
<b>Section 5 – Fire Fighting Measures</b>	
Suitable Extinguishing Material	<b>Water spray, dry chemical, foam or carbon dioxide.</b>
Unsuitable Extinguishing Material	None known.
Hazards from Combustion	Smoke may contain the original material in addition, but not limited to: Carbon Monoxide.
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.
<b>Section 6 – Accidental Release Measures</b>	
Use of personal precautions	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.
Protective equipment to prevent the contamination of skin, eyes, and clothing.	Useage of safety glasses or goggles is recommended. Chemical resistant gloves, chemical resistant apron, boots, and full suit will be necessary depending on the extent of clean-up task. If ventilation does not control airborne concentration then respiratory protection equipment that meets OSHA 29CFR1910.134 and ANSI Z88.2 requirements should be used.
Methods and materials used for containment	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.
Cleanup procedures	Do not flush to sewer. Comply with all federal, state, and local regulations.
<b>Section 7 – Handling and Storage</b>	
Precautions for safe handling	Protect container from physical damage. Wear appropriate personal protection equipment. Do not expose containers to open flame, excessive heat, or direct sunlight. Use local exhaust over processing area. Do not eat, drink or smoke around products.
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.	Store in a cool, dry and well ventilated area away from sources of heat, moisture and incompatible materials like strong acids, bases, oxidizers, flammables. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination.
<b>Section 8 – Exposure Controls/Personal Protection</b>	
OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	N/A
Other Exposure Limits	N/A
Engineering Control	General room ventiaition plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits.
Individual Protection Measures	Wear protective safety glasses or goggles, gloves, apron, vapor respirator.
<b>Section 9 – Physical and Chemical and Chemical Properties</b>	
Appearance (physical state, color, etc.)	Milky white liquid.
Upper/lower flammability or explosive limits	Data not available
Odor	Distinct
Vapor pressure	Data not available
Odor threshold	No data available
Vapor density (air = 1)	Data not available
pH	5.0-8.5
Relative density	1.004
Freezing point (as 50%)	<32°F
Solubility(ies)	Limited solubility in water
Initial boiling point and boiling range	>212°F
Flash point	>212°F
Evaporation rate (Butyl Acetate = 1)	Data not available

Flammability (solid, gas)	Non Flammable				
Partition coefficient: n-octanol/water	Data not available				
Auto-ignition temperature	Data not available				
Decomposition temperature; and	Data not available				
Viscosity	Data not available				
<b>Section 10 – Stability and Reactivity</b>					
Reactivity	Product is stable under typical use temperatures.				
Chemical Stability	Stable under normal conditions of use and storage.				
Hazardous Reactions	No hazardous reactions expected when used as indicated.				
Conditions to Avoid	Extreme temperatures.				
Incompatible Materials	Avoid contact with oxidizing agents, strong bases and strong acids.				
Decomposition Products	Carbon monoxide, carbon dioxide, silicon oxide(s), formaldehyde				
<b>Section 11 – Toxicological Information</b>					
Likely Routes of Exposure	Eyes / Skin / Ingestion / Inhalation				
	<b>Effects from Short Term Exposure</b>		<b>Effects from Long Term Exposure</b>		
Delayed Effects	Irritation of affected area		None known.		
Immediate Effects	No effect expected.		None known.		
Chronic Effects	None known.		None known.		
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.			Ingestion: LD50 - Rat - >5000 mg/kg. Inhalation: LC50 - not determined.		
Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.			Irritation of affected area.		
<b>Listed in the National Toxicology Program (NTP) Report on Carcinogens?</b>	Not listed.	<b>Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs?</b>	Not listed.	<b>Found to be a potential carcinogen by OSHA?</b>	Not listed.
<b>Section 12 – Ecological Information</b>					
Ecotoxicity	No Data Available				
Persistence and Degradability	No Data Available				
Bioaccumulation	Partially biodegradable				
Mobility in Soil	No Data Available				
Other Adverse Effects	No Data Available				
<b>Section 13 – Disposal Considerations</b>					
Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options					
<b>Section 14 – Transport Information</b>					
Is product DOT regulated in Non-Bulk packaging?					No
<b>DOT BULK</b>					
UN number					Not Regulated
UN proper shipping name					Non Regulated Material
Transport hazard class(es)					Not Regulated
Packing group number					Not Regulated
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))					Not Regulated
Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))					Not Regulated

Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises		None
<b>Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)</b>		
Safety Regulations	OSHA Hazard Communication Standard: This product is not considered to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Health Regulations	Not Available	
Environmental Regulations	Not Available	
SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) / EPCRA Sections 311 and 312: Not hazardous. Section 313: None present in regulated quantities.
HMIS	Blue/Health	0
	Red/Flammability	0
	Orange/Physical Hazard	0
	White/Personal Protection	N/A
NFPA 0(no hazard) to 4(severe risk)	Health (Blue)	0
	Flammability (Red)	0
	Instability/Reactivity (Yellow)	0
	Special (White)	0
US Toxic Substance Control Act	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30	
CEPA – Domestic Substances List (DSL)	No data available	
<b>Section 16 – Other Information</b>		
The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various location. This SDS is applicable for all dilutions and containers for this product. It is the buyer's/user's responsibility to ensure that activities comply with all federal, state, provincial or local law.		
Revision Date: 7/19/2016		