

PRODUCT: DEFOAMER

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T. DONOVAN & SON (1997) LTD.
700 WILSON STREET
SAINT JOHN, NEW BRUNSWICK
CANADA E2M 3V2
TOLL FREE: 1-888-799-2645 / LOCAL (506) 642-1500

PRODUCT NAME: Defoamer

CHEMICAL FORMULA: Polydimethylsiloxane emulsion.

CHEMICAL FAMILY: Silicone.

MATERIAL USE: Silicone Emulsion.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Attention! This material is not considered hazardous by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR (Code of Federal Regulations) 1910.1200. Although this product is considered not hazardous this Safety Data Sheet (SDS) contains valuable information for the safe handling and proper use of this product, please review before product use.

SIGNAL WORD: Not Applicable.

HAZARD STATEMENT: Not Applicable.

PRECAUTIONARY STATEMENT: Not Applicable.

OTHER HAZARDS: Potential Health Effects:
INGESTION: No evidence of adverse effects from available information.
SKIN: No evidence of adverse effects from available information.
INHALATION: Short-term harmful health effects are not expected from vapor generated at ambient temperature.
EYES: No evidence of adverse effects from available information.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Fatty Acid Ethoxylate	Information not Provided.	1 - 5 %

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

IF INHALED: If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

IN CASE OF SKIN CONTACT: Wash area with soap and water.

IN CASE OF EYE CONTACT: Rinse immediately with plenty of water. Get medical attention if symptoms persist.

IF SWALLOWED: Do NOT induce vomiting. If victim is conscious, give 2-4 glasses of water. Do not give victim anything to drink if he is unconscious. Get medical attention.

NOTE TO PHYSICIAN: Treatment is symptomatic and supportive.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: All standard extinguishing agents are suitable.

UNSUITABLE EXTINGUISHING MEDIA: Avoid any direct stream of water that will disperse and spread fire.

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SECTION 05: FIRE FIGHTING MEASURES

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCT:

After evaporation of water, combustion will generate producing carbon oxides, oxides of silicon, and formaldehyde. Carbon monoxide is highly toxic if inhaled, and carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. This product contains methylpolysiloxanes which will likely generate formaldehyde at approximately 150°C (300°F) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and has been classified by the National Toxicology Program as a known human carcinogen. For additional information on Formaldehyde please refer to Formaldehyde's SDS.

SENSITIVITY TO MECHANICAL IMPACT:

No.

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters must wear National Institute for Occupational Safety and Health (NIOSH)/ Mine Safety and Health Administration (MSHA) approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION 06: ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with skin and eyes. Keep out of reach of children. Attention: Not for injection into humans. May generate formaldehyde at temperatures greater than 150°C (300°F). See Section 8: Exposure Controls/Personal Protection of this SDS for Personal Protective Equipment.

CONDITIONS FOR SAFE STORAGE:

Keep container tightly closed. Keep from freezing. To assure uniform quality, mix well before using. Store above 0°C (32°F).

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Limits of Exposure:

INGREDIENT(S)	<i>Canadian Occupational Health and Safety Act, Chemical Hazards Regulations</i>		ACGIH TLV	
	TWA	STEL	TWA	STEL
Carboxylic Acid	10 ppm (25 mg/m ³) (Alberta and Quebec)	15 ppm (37 mg/m ³) (Alberta and Quebec)	10 ppm	15 ppm
	10 ppm (British Columbia, Manitoba, Ontario)	15 ppm (British Columbia, Manitoba, Ontario)		

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists.

TLV - Threshold Limit Value.

STEL - Short-term Exposure Limit.

TWA - Time Weighted Average.

ENGINEERING CONTROLS:

Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

RESPIRATORY PROTECTION:

Use only in well-ventilated areas. 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 OSHA regulations (see 29CFR 1910.134).

SKIN AND BODY PROTECTION:

Chemical resistant gloves.

EYE/FACE PROTECTION:

Safety glasses with side shields.

OTHER/TYPE:

Wear suitable protective clothing and eye/face protection.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	White Liquid.
ODOUR:	Faint.
ODOUR THRESHOLD:	No Data Available.
pH:	4.
MELTING POINT/FREEZING POINT:	0°C; 32°F; ca.
BOILING POINT:	> 100°C; > 212°F; Mixture
FLASH POINT, METHOD:	Does not Flash.
EVAPORATION RATE:	< 1
FLAMMABILITY (SOLIDS AND GASES):	No Data Available.
UPPER FLAMMABLE LIMIT (% BY VOL):	No Data Available.
LOWER FLAMMABLE LIMIT (% BY VOL):	No Data Available.
VAPOUR PRESSURE:	< 26.6 hPa (20°C).
VAPOUR DENSITY (AIR=1):	>1.
DENSITY:	1.0100 g/cm ³ .
SPECIFIC GRAVITY (WATER=1):	ca. 1.01.
SOLUBILITY:	Dispersible.
SOLUBILITY IN ORGANIC SOLVENT (State solvent):	Dispersible.
AUTO IGNITION TEMPERATURE:	None.
PARTITION COEFFICIENT N-OCTANOL/WATER:	No Data Available.
DECOMPOSITION TEMPERATURE:	No Data Available.
VISCOSITY:	No Data Available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No dangerous reaction if used according to recommendations.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	No Data Available.
CONDITIONS TO AVOID:	None known.
INCOMPATIBLE MATERIALS:	None known.
HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS:	After evaporation of water, combustion will generate producing carbon oxides, oxides of silicon, and formaldehyde. Carbon monoxide is highly toxic if inhaled, and carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. This product contains methylpolysiloxanes which will likely generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and has been classified by the National Toxicology Program as a known human carcinogen. For additional information on Formaldehyde please refer to Formaldehyde's SDS.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT(S)	CL50 / LC50	DL50 / LD50
Product	-	Ingestion: >64,000 mg/kg (Rat) Dermal: >20,000 mg/kg (<i>Leporidae sp.</i> , Rabbit)

Substance(s) specific(s): Trade Secret TDLo (Rat): 16 mg/L.

ACUTE TOXICITY:	
ORAL LD50:	No Data Available.
INHALATION LC50:	No Data Available.

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SECTION 11: TOXICOLOGICAL INFORMATION

INGESTION LD50:	See Above.
DERMAL LD50:	See Above.
SKIN CORROSION / IRRITATION:	No Data Available.
SERIOUS EYE DAMAGE / EYE IRRITATION:	No Data Available.
RESPIRATORY OR SKIN SENSITIZATION:	No Data Available.
GERM CELL MUTAGENICITY:	No Data Available.
CARCINOGENICITY:	No Data Available.
REPRODUCTIVE TOXICITY:	No Data Available.
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	None Known.
STOT - REPEAT EXPOSURE:	None Known.
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:	A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.
ROUTES OF EXPOSURE:	No anticipated routes of exposure.
OTHER EFFECTS OF OVEREXPOSURE:	No adverse effects anticipated from available information.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	Biodegradation, Product: No Data Available. Specific Substance(s): Trade Secret 50%. Trade Secret 60% (5 d, No Data Available). Report BOD (Biological Oxygen Demand) / COD (Chemical Oxygen Demand), Product: No Data Available.
BIOACCUMULATIVE POTENTIAL:	Bioconcentration factor (BCF), Product: no information available. Partition coefficient n-octanol/water (log Kow), Product: no information available.
ECOTOXICOLOGY:	
Acute Risks to the Aquatic Environment:	FISH, Product: No Data Available. Specific Substance(s): Trade Secret: LC0 (<i>Brachydanio rerio</i> (Zebrafish), 96 h): 1,130 mg/L. Trade Secret: LC50 (<i>Lepomis macrochirus</i> (Bluegill), 96 h): 75 mg/L. LC0 (<i>Leuciscus idus</i> (Ide)): 368 mg/L. LC100 (Ide): 452 mg/L. LC50 (Ide, 48 h): 410 mg/L. LC50 (<i>Pimephales promelas</i> (Fathead minnow), 96 h): 88 mg/L.
Chronic Risks to the Aquatic Environment:	AQUATIC INVERTEBRATES, Product: No Data Available. Specific Substance(s): Trade Secret: LC0 (<i>Daphnia magna</i> (Water flea)): 150 mg/L. EC50 (Water flea, 24 h): 95 mg/L. FISH, Product: No Data Available. Specific Substance(s): Trade Secret: LC0 (Zebrafish, 4 d): 1,130 mg/L. AQUATIC INVERTEBRATES, Product: No Data Available. Aquatic plant Toxicity, Product: No Data Available.
MOBILITY IN SOIL:	No Data Available.
ADDITIONAL INFORMATION:	None.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Disposal should be made in accordance with Federal, Provincial and local regulations.
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SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Not regulated for transport.
United States (US) Department of Transportation (DOT):	Not regulated for transport.
International Maritime Dangerous Goods (IMDG):	Not regulated for transport.
International Air Transport Association (IATA)/ International Civil Aviation Organization (ICAO):	Not regulated for transport.
UNITED NATIONS (UN) NUMBER:	Not Applicable.
TRANSPORT HAZARD CLASS:	Not Applicable.
PACKING GROUP:	Not Applicable.
PROPER SHIPPING NAME:	Not Applicable.
SPECIAL SHIPPING INSTRUCTIONS:	
In Accordance with TDG:	This product is NOT regarded as dangerous goods according to the national and international regulations on the TDG.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:	This is not a WHMIS controlled product.
HAZARDOUS PRODUCT REGULATIONS (HPR) COMPLIANCE:	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR
CANADA'S FEDERAL REGULATIONS:	
Canada Canadian Domestic Substances List (DSL) Inventory:	Yes (Positive Listing).
Canada Non-Domestic Substances List (NDSL) Inventory:	No (Negative Listing).
Canadian Environmental Protection Act (CEPA):	<ul style="list-style-type: none"> • List of toxic substances (CEPA, Schedule 1): Chemical Identity - Octamethyl-Cyclotetrasiloxane. • List of controlled export substances (CEPA 1999, Annex 3): Not Regulated. • CEPA National Pollutant Release Inventory (NPRI): Part 5 Speciated Volatile Organic Compounds (VOCs), NPRI PT5 - Not Regulated. Canadian Gazette Part I, 135:12, 940) - Not Regulated.
UNITED STATES (US) REGULATORY INFORMATION:	
Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazard Categories:	No SARA Hazards.
US Toxic Substances Control Act (TSCA):	Yes (Positive Listing).
US STATE OR LOCAL REGULATIONS:	
CALIFORNIA PROPOSITION 65:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS):

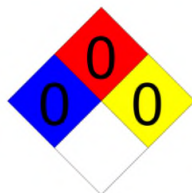
HEALTH	0
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

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SECTION 16: OTHER INFORMATION

National Fire Protection Association (NFPA)



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

PREPARED BY: T. Donovan & Son (1997) Ltd.
PREPARATION DATE: May 2018

DISCLAIMER:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Regulatory requirements are subject to change and may differ between various locations. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.