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1 - Product and Company Identification							
Product name:		Mulsifan 4000 DO					
Product type/usage	/industry:	Polyethylene Glycol 40	00 Dioleate				
Manufacturer/Suppl	lier Information:	Zschimmer and Schwa 70 GA Hwy. 22 W Milledgeville, GA 31061 Phone: (478) 454-1942					
Emergency contact	:	Company: CHEMTREC (24HR):	(478) 454-194 <b>(</b> 800) 424-930				
	<u>2</u> -	- Hazards Identification	<u>1</u>				
Classification of t	he substance or mixture:		of this substance 0.1200/HazCom 20	/mixture is based on 012 (GHS-US)			
Not classified							
Labelling:							
Signal Word:		Hazard Symbols:					
None		None					
Precautionary State	ements:	P262: Do not get in eyes, or P302+352: IF ON SKIN: Wa P305+351+338: IF IN EYES minutes. Remove contact le rinsing. P314: Get medical advice/a	ish with plenty of s 3: Rinse cautiously nses if present an	oap and water. with water for several d easy to do – continue			
Key to Hazard Categor	ries:						
1=Severe Hazard	2=Serious Hazard	3=Moderate Hazard 4	=Slight Hazard	5=Minimal Hazard			
	<u>3 – Compos</u>	sition/Information on Ir	gredients				
<u>CAS Number</u> 9005-07-6	Material or component Poly(oxy-1,2-ethanediyl), octadecenyl)oxy)-(Z,Z)-	α -(1-oxo-9-octadecenyl)-ω-(	(1-oxo-9-	<u>Avg % weight</u> ~ 100%			

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

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		<u>4 - First Aid Measures</u>			
Eyes:	Immediately flush with gent Get medical attention if irrita	out large stream of water for 15 min, lifting upper and lower eyelids occasionally. n develops.			
Skin:		ap and water. If itching or redness develops, seek medical attention. Contaminated I immediately and washed before reuse. Contaminated shoes should be discarded.			
Inhalation:	Move the person to fresh ai	r. If breathing becomes difficult, contact a physician.			
Ingestion:					
		5 - Firefighting Measures			
Extinguishing N Unsuitable Exti	Media: nguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide. None known.			
Special Protect Firefighters:	ive Equipment for	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.			
Unusual Fire &	Explosion Hazards:	In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO and $CO_2$ under fire conditions.			
	<u>6</u>	- Accidental Release Measures			
Personal preca	utions:	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.			
Environmental precautions:		P273: Avoid release to the environment Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.			
Methods for Co	ontainment/Cleaning Up:	If liquid, take up with absorbent material (e.g. vermiculite, general purpose binder). If solid, take up mechanically (e.g. shovel). Dispose of absorbed material in accordance with local, state, and federal regulations.			
		7 - Handling and Storage			
Handling:		P261: Avoid breathing mists of product P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection			
Storage:		P402+404: Store in a dry place. Store in a closed container P403+233: Store in a well-ventilated place. Keep container tightly closed Protect from moisture.			
Special Packag	ing Requirements:	None known.			
Incompatible M Protection:	aterials or Fire/Explosion	Strong oxidizers, strong acids, and strong bases at high temperatures.			

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	<u>8 - I</u>	Exposure Controls/Persor	nal Protection	
Personal Protective	e Equipment (PPE):			
Hand Prot	ection:	Use impervious gloves.		
Eye Protect	ction:	Wear safety glasses with s	de shields or full face shie	eld.
Skin Prote	ction:	Wear protective clothing.		
Respirator	y Protection:	Recommended if ventilation	n is limited.	
Engineering Measu	res/Controls:			
Ventilatior	1:	Ensure adequate ventilatio	n to maintain product at ac	cceptable airborne levels.
Other mea	sures:	Eye-wash station.		
Exposure Limits/G	uidelines:			
Material	CAS #	BASIS	TYPE	VALUE
None				

#### 9 - Physical and Chemical Properties

Form and Appearance:	White solid	Odor:	Fatty
pH:	~ 6.0 @ 5%	Odor Threshold:	N/D
Boiling Point:	> 392°F (200°C)	Melting/Freezing point:	N/D
Vapor Pressure:	< 0.01 mmHg @ 20°C	Vapor Density (Air=1):	N/D
Flash Point:	> 302°F (150°C) (COC)	Evaporation Rate:	< 0.01
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/D	Specific Gravity/ Bulk Density:	N/D
Auto-ignition temperature:	N/D	Decomposition Temperature:	N/D
Volatile content:	< 1.0%	VOC Data:	N/D

#### 10 - Stability and Reactivity

Chemical Stability:	Product is stable under ordinary conditions of use and storage.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Exposure to moist air or water.
Incompatible Materials:	Strong oxidizers, strong acids, and strong bases at high temperatures.
Hazardous Decomposition Products:	Extremely high temperatures may produce CO <sub>x</sub> ; thermal decomposition may produce irritating aldehydes.

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11 - Toxicological Information						
Acute Data: Principle Route	es of Exposure:	Eye contact, s	kin contact, ingestion,	inhalation (mist).		
Acute Toxicity	Test	Creation	Desulter	Commenter		
Route of exposure: Oral	Test type: LD50	Species: Rat	Results: >2000 mg/kg	Comments:		
Orai	LDOU	Ral	>2000 mg/kg	-		
Dermal	LD50	Rabbit	>5000 mg/kg			
Irritation and Corrosior	<u>1</u>					
Target organ:	Species:	Results:		Comments:		
Eyes	Rabbit	Non-irritating		-		
Skin	Rabbit	Non-irritating		-		
Sensitization						
Target organ:	Species:	Results:		Comments:		
Skin	Human	No effects know	wn	-		
Specific Target Organ						
Target organ:	Species:	Results:		Comments:		
NDA				-		
Chronic Data:						
<b>Carcinogenicity</b>						
IARC	NTP	AC	GIH	OSHA		
No	No	No	)	No		
Mutagenicity:		NDA				
Reproductive Effects:		NDA				
Target Organ Effects:		NDA				

<u>12 - Ecological Information</u>							
Acute Aquatic Toxicity							
Species:	Test type:	Exposure time:	Results:	Comments:			
Leuciscus idus	LC50	96h	N/D	Expected to possess low toxicity to aquatic organisms			
Daphnia magna	EC50	48h	N/D	-			
Algae	EC50	72h	N/D	-			
<u>Environmental Fate</u> Persistence/De	gradability:	Product is moderate	elv biodegradable.				
COD/BOD5:		NDA					
Bioaccumulation Potential:		No bioconcentration is expected because of the relatively high water solubility.					
Mobility in Soil:		NDA					
Other Adverse Effects:		NDA					

#### **13 - Disposal Considerations**

**Product:** 

Packaging:

Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations. NDA

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	14 - Transport Regulations
US DOT Regulations (Land Transport):	
Proper Shipping Name:	Not regulated.
Hazard Class:	Not regulated.
UN Number:	Not regulated.
Packing Group:	Not regulated.
Label Required:	Not regulated.
Other Information:	Not regulated.
IATA/ICAO Regulations (Air Transport)	:
Proper Shipping Name:	Not regulated.
Hazard Class:	Not regulated.
UN Number:	Not regulated.
Packing Group:	Not regulated.
Label Required:	Not regulated.
Other Information:	Not regulated.
IMDG/IMO Regulations (Maritime Trans	sport):
Proper Shipping Name:	Not regulated.
Hazard Class:	Not regulated.
UN Number:	Not regulated.
Packing Group:	Not regulated.
Label Required:	Not regulated.
EMS Number:	Not regulated.
Segregation Groups:	Not regulated.
Marine Pollutant (Y/N):	Not regulated.
Other Information:	Not regulated.

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Domestic R	equlations								
	requiring not	ification							
SARA 302	(TPQ) S	ARA 304 (RQ)	SARA 31	3 C	ERCLA (	RQ)	CAA 112(b) H	APS (	CAA 112(r)
None		None	None		None		None		None
SARA 311/31	2 Hazard Cate	egorization:	None						
State Inform	ation								
Cali	fornia Proposi	tion 65:					ollowing compo , or other repro		
			Ethylene C 1,4-Dioxar			5-21-8) 23-91-1)			
State Right to Know/ Hazardous Substance List Information:		The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.							
		1,4-Dioxar	Ethylene Oxide(75-21-8) (trace amounts, if any)1,4-Dioxane(123-91-1) (trace amounts, if any)Polyethylene glycols(25322-68-3)						
			This is not a state's RTK		ive list. Fo	r informatior	n on listings in otl	her states, plea	se consult that
Chemical Inv	ventories								
United States	States (EINECS/ (AICS)		Philippines (PICCS)	•		Korea (ECL)	(ENCS/	China (IECSC)	New Zealand (NZIoC)
(TSCA)	ELINCS/ NLP)			DSL	NDSL		ISHL)		
Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
			<u> 16 - Add</u>	itional I	Informa	tion			

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

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