	<u>1 - Produ</u>	ct and Company Iden	tification					
Product name:		Mulsifan 400 DT						
Product type/usage/indu	ıstry:	Polyethylene Glycol 4	Polyethylene Glycol 400 Ditallate					
Manufacturer/Supplier I	nformation:	70 GA Hwy. 22 W	Milledgeville, GA 31061					
Emergency contact:		Company: CHEMTREC (24HR):						
	<u>2 –</u>	- Hazards Identificatio	<u>on</u>					
Classification of the s	mixture is based on 12 (GHS-US)							
Not classified								
Labelling:								
Signal Word:		Hazard Symbols:						
None		None						
Precautionary Statements:		<ul> <li>P262: Do not get in eyes, on skin, or on clothing.</li> <li>P302+352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</li> <li>P314: Get medical advice/attention if you feel unwell.</li> </ul>						
Key to Hazard Categories:								
1=Severe Hazard	2=Serious Hazard	3=Moderate Hazard	4=Slight Hazard	5=Minimal Hazard				
	<u>3 – Compos</u>	ition/Information on I	ngredients					
	Material or component Fatty acids, tall-oil, dieste	rs with polyethylene glycol		<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.

		<u>4 - First Aid Measures</u>
Eyes:	Immediately flush with gen Get medical attention if irrit	tle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. ation develops.
Skin:		pap and water. If itching or redness develops, seek medical attention. Contaminated dimmediately and washed before reuse. Contaminated shoes should be discarded.
Inhalation:	Move the person to fresh a	ir. If breathing becomes difficult, contact a physician.
Ingestion:	Do not induce vomiting. If feel unwell.	large amounts were swallowed, give water to drink and get medical attention if you
		5 - Firefighting Measures
	Media: tinguishing Media: :tive Equipment for	Water spray, dry chemical, alcohol foam, or carbon dioxide. None known. Self-contained breathing apparatus and protective clothing when fighting any
Firefighters: Unusual Fire & Explosion Hazards:		chemical fire. In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO and CO <sub>2</sub> under fire conditions.
		6 - Accidental Release Measures
Personal prec	autions:	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 Containment/Cleaning Up:		Take up with absorbent material (e.g. vermiculite, general purpose binder). 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/eye 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. Store in cool dry places between 32°F (0°C) and 95°F (35°C).
Special Packa	ging Requirements:	None known.
Incompatible I Protection:	Materials or Fire/Explosion	Strong oxidizers, strong acids, and strong bases at high temperatures.

### Zschimmer & Schwarz GHS Safety Data Sheet

# **MULSIFAN 400 DT**

Version: 1.2 Page 3 of 7

	<u>8 - Ex</u>	posure Control	s/Personal F	Protection				
Personal Protective Equipm	ent (PPE):							
Hand Protection:		Use impervious	Use impervious gloves.					
Eye Protection:		Wear safety glas	-	hields.				
Skin Protection:		Wear protective	clothing.					
Respiratory Protec	tion:	Recommended i	Recommended if ventilation is limited.					
Engineering Measures/Cont	trols:							
Ventilation:		Ensure adequate	e ventilation to r	naintain produc	t at acceptable airborne levels.			
Other measures:		Eye-wash station	n.					
Exposure Limits/Guidelines								
Material	CAS #	BASI	IS	TYPE	VALUE			
None								
		Dhusiaal and C	homical Dro	no sti o o				
		Physical and C	nemical Pro	perties				
Form and Appearance:	Clear to sligl amber liquid	htly hazy, yellow to (25°C)	Odor:		Faint			
pH:	~ 6.0 @ 5%		Odor Thresh	old:	N/D			
Boiling Point:	> 392°F (200°C)		Melting/Free	zing point:	< 41°F (5°C) (titer pt.)			
Vapor Pressure:	< 0.01 mmH	g @ 20°C	Vapor Density (Air=1):		N/A			
Flash Point:	> 347°F (17	5°C) (COC)	Evaporation	Rate:	< 0.01			
UEL:	N/A		LEL:		N/A			
Viscosity:	N/D		Solubility in	Water:	Dispersible			
Octanol/Water Partition Coefficient:	N/D		Specific Grav Bulk Density		~ 0.98			
Auto-ignition temperature:	N/D		Decompositi Temperature		N/D			
Volatile content:	< 1.0%		VOC Data:		N/D			
		<u>10 - Stability a</u>	and Reactiv	ity				
Chemical Stability:		Product is stable	Product is stable under ordinary conditions of use and storage.					
Hazardous Polymerization:		Will not occur.	Will not occur.					
Conditions to Avoid:		Exposure to moi	Exposure to moist air or water.					
Incompatible Materials:		Strong oxidizers	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.						

# **MULSIFAN 400 DT**

#### Version: 1.2 Page 4 of 7

		<u>11 - Toxicol</u>	ogical Info	rmation				
Acute Data:								
Principle Routes of Exposure:		Eye c	Eye contact, skin contact, ingestion, inhalation (mist).					
Acute Toxicity								
Route of exposure:	Test type:	Species:	cies: Resu			Comments:		
Oral	LD50	Rat	Rat >2			H303: May be harmful if swallowed.		
Irritation and Corrosion	<u>n</u>							
Target organ:	Species:	Result	s:		Comments:			
Eyes	Rabbit	Non-iri	itating		-			
Skin	Rabbit	Non-irritating			-			
Sensitization								
Target organ:	Species:	Result	s:		Comments:			
Skin	Human	Not sensitizing			-			
Specific Target Organ	Toxicity – Single Fr	nosure						
Target organ:	Species:	Result	s:		Comments:			
NDA					-			
Chronic Data:								
Carcinogenicity								
IARC	NTP		ACGIH		OSI	łA		
No	No		No		No			
Mutagenicity:		NDA						
Reproductive Effects:		NDA						
Target Organ Effects:		NDA						

12 - Ecological Information							
Acute Aquatic Toxicity							
Species:	Test type:	Exposure time:	Results:	Comments: Expected to possess low toxicity to aquatic organisms -			
Leuciscus idus	LC50	96h 48h	N/D				
Daphnia magna	EC50		N/D				
Algae	EC50	72h	N/D	-			
Environmental Fate							
Persistence/Degradability:		Product is moderately biodegradable.					
COD/BOD5:		NDA					
<b>Bioaccumulation Potential:</b>		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

## Zschimmer & Schwarz

#### **GHS Safety Data Sheet**

# **MULSIFAN 400 DT**

Version: 1.2 Page 6 of 7

	<u>14 - Transport Regulations</u>
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.
ATA/ICAO Regulations (Air Transport)	<u>.</u>
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.
MDG/IMO Regulations (Maritime Trans	port):
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.

### Zschimmer & Schwarz GHS Safety Data Sheet

### **MULSIFAN 400 DT**

#### Version: 1.2 Page 7 of 7

Domestic R	egulations									
	requiring not	ification								
	SARA 302 (TPQ) SARA 304 (RQ)		SARA 313 CERCLA (RQ)			RQ)	CAA 112(b) H	APS C	CAA 112(r)	
None		None	None	ne None			None		None	
SARA 311/312 Hazard Categorization:		None								
<u>State Informa</u> Calif	<u>ation</u> ornia Proposi	tion 65:					ollowing compo			
			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.								
		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 consult that				nation on listing	gs in other stat	es, please	
Chemical Inv	entories									
		Australia (AICS)	Philippines (PICCS)			Korea (ECL)	Korea Japan (ECL) (ENCS/ ISHL)	China (IECSC)	New Zealand	
			<b>、</b> ,	DSL	•				(NZIoC)	
Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	
			16 - Add	itional	Informat	tion				
Key to Abbre	viations:									
•	No data availal	ble N/D -	Not determi		N/A -		pplicable	N/E - No	t established	

NDATA THAT THEY BELIEVE IN THEIR GO J FALLH JU JRATE. HOWEVER. THE INFORMATION PROVIDED HER IS PROVIDED "AS IS," AND ZSCHIMMER & SCHWARZ INC. MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT, INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, ZSCHIMMER & SCHWARZ, INC. ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. ZSCHIMMER & SCHWARZ INC. REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES. EXISTING ACTS AND REGULATIONS MUST BE OBSERVED BY THE RECIPIENT OF OUR PRODUCTS UNDER THEIR OWN RESPONSIBILITY.

Date of Issue: April 1, 2015

Date of last revision: May 26, 2015