



Date:	03/01/09	MSDS No:	
Supersedes:			
Trade Name:	n/a		
Sizes:	All		

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

Manufacturer/Supplier: Dial Manufacturing, Inc. 25 S. 51st Avenue Phoenix, Arizona 85043 Tel. No.: (602) 278-1100	Product Name:	WETTING AGENT/SURFACTANT Non-Ionic Surfactant Blend		
	Product Number:	5180		
	Classification:	HMIS HEALTH:	2 - Moderate Hazard	
		FLAMMABILITY:	1 - Slight Hazard	
REACTIVITY:		0 - Insignificant		
SPECIAL:		0 - Insignificant		

SECTION II - HAZARDOUS MATERIALS

Warning: This product contains chemicals known to the State of California to cause cancer (birth defects or other reproductive harm).

Ingredients:	CAS No.	WT-%	PEL	Exposure Limits, MG/M³		
				TWA-TLV	STEL-TLV	CARCINOGEN
Ethylene Oxide	#75218	10 PPM				
Glycol Ether	N/A	.00-3.99				

SECTION III - PHYSICAL DATA

Boiling Range:	210°F - 215°F	Percent Active:	Not applicable
Vapor Density:	N/A	Specific Gravity:	1
Evaporation Rate:	N/A	Vapor Density:	<1
Physical Description:	Pale Liquid	pH of Undiluted Product:	7.0
Odor:	Slight	Melting Point:	N/D
Volatile	Not Applicable	Freezing Point	41°

SECTION IV - FIRE AND EXPLOSTION HAZARD DATA

Flash Point Method Used:	N/D	Extinguishing Media:	CO ₂ Dry Chemical, Water. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.
Upper Explosive Limit:	N/D	Lower Explosive Limit:	N/D
Special Fire Fighting Procedures:	None	Unusual Fire & Explosion Hazards:	None

SECTION V - HAZARDOUS REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Toxic levels of Carbon Monoxide, Carbon Dioxide, Irritating Aldehydes and Ketones may be formed on burning. Heating in air may produce irritating Aldehydes, Acids and Ketones.
Conditions to Avoid:	None known
Incompatibility (Material TO Avoid):	Strong oxidants, Alkali

SECTION VI - STORAGE & HANDLING DATA

Precautions To Be Taken In Handling and Storing:	Keep out of reach of children. Eye wash should be available nearby when this product is handled or used. Minimum feasible handling temperatures should be minimized. Water contamination should be avoided.
---	---

Additional Information: Ethoxylated products may contain residual amounts of Ethylene Oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene Oxide causes tumors in laboratory animals. The occupational safety and health administration (OSHA) permissible exposure level (PEL) for EO is 1 PPM for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including product containing residual EO. It is the responsibility of the employer to comply with OSHA Ethylene Oxide Standard (29) CFR 1910.1947.

SECTION VII – HEALTH HAZARDS & FIRST AID DATA

Route(s) of Entry:	Skin, Eye, Inhalation and Ingestion.		
Health Hazards (acute & chronic):	Eyes:	Causes irritation, experienced as pain, with excess blinking and tear production, and seen as marked excess redness and swelling of the eye with injury to the cornea.	
	Skin:	Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. No adverse effects expected from absorption of material through the skin.	
	Inhalation:	Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea and drowsiness.	
	Ingestion:	May cause abdominal discomfort, nausea, and diarrhea.	
	Chronic:	Repeated skin contact may cause a persistent irritation or dermatitis.	
Medical Conditions Aggravation by Exposure:	Because of it's irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).		
Carcinogenicity:	No	NTP:	No
IARC Monographs:	N/A	OSHA Regulated:	N/A
None of the ingredients are listed as carcinogens by IARC, NTP, & OSHA. The criteria for listing components in this component section is as follows: Carcinogens are listed when present at 0.1% or greater; Components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater; Non-hazardous components are listed at 3.0% or greater. This is not intended to be a complete compositional disclosure. Refer to applicable states' Right-To-Know and other regulatory information.			
Toxicological Information (Animal Toxicity Data):	Median Lethal Dose (LD50 LC50) (SPECIES)		
	Oral	Approximately 3.31 G/KG (Rate); Slightly Toxic	
	Inhalation	N.D.	
	Dermal	2.00 G/KG (Rabbit); Practically Non-Toxic	
Irritation Index:	Skin:	1.04/8.0 (Rabbit); Slightly Irritating	
	Eyes:	Believed to be > 14.40/110 (Rabbit); Slightly irritating sensitization – N.D.	
	Other:	This product contains residual (Low PPM) concentrations of Ethylene Oxide. Ethylene Oxide causes tumors in laboratory animals.	
First Aid Procedures:	Skin:	Wash skin thoroughly with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.	
	Eyes:	Immediately flush with large quantities of running water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention immediately. Continue flushing with water for an additional 15 minutes if medical attention is not immediately available.	
	Inhalation:	If irritation, headache, nausea or drowsiness occurs, remove victim to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.	
	Ingestion:	If patient is conscious and can swallow, give two glasses of water (16 oz.). Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person.	

SECTION VIII – SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Airborne concentrations should be kept to lowest levels possible. If vapor, mist or duct is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. Read this material safety data sheet for applicable permissible concentrations.
Ventilation:	Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

CONTINUED ON NEXT PAGE

Skin Protection:	Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned at least once a week. Rubber gloves.
Eye Protection:	Chemical type goggles should be worn. Do not wear contact lenses.
SECTION IX – SPILL OR LEAK PROCEDURES	
Steps to be taken in case material is released or spilled:	Flush small spills (5 gal. or less) to sewer with copious water. Dike and contain larger spills. Absorb on inert material (sawdust or clay) and shovel to waste container for disposal. Avoid skin contact.
Remarks:	Considered to be relatively toxic to aquatic life at concentrations as low as 5PPM.
Water Disposal Method:	This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.