

Surface Conditioning Agent for Latex Compounds.

Introduction

MANAWET SMO also known as sulfated methyl Oleate is a neutral sulfated alkyl ester. It is especially useful as a surface conditioning agent and process aid in improving the integrity of latex films by helping eliminate surface striations in the dipped films. Manawet SMO also improves the dipping properties of latex compounds and helps to stabilize both natural and synthetic latex. It is especially effective in Chloroprene Latex.

Typical Properties

Appearance - Clear amber liquid
Solids % - 30
pH, 1% in DI water - 7.0
Density - 1.08

Dosage

Recommended level of addition is between 0.5 phr to 3.0 phr.

Handling

Manawet SMO is sensitive to temperature, handling and storage under certain conditions. This sensitivity sometimes results in the product become cloudy or separating into layers. This phenomenon does not affect performance. The product can be restored to its clear amber state by heating the liquid to a temperature of about 60°C - 65°C or by simply agitating the product.



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MANAWET SMO

MANAWET SMO is a neutral sulfated alkyl ester which is used to stabilize latex, both natural and CR and SBR. It is especially useful in improving the integrity of latex films by helping to eliminate surface striations in the dipped film.

Typical Properties

Appearance.....	Clear amber liquid
Solids %	30
pH, 1% in DI water.....	7.0
Density	1.08

Packaging, Storage, and Handling:

MANAWET SMO is shipped in 55-gallon drums (450# net) and 275-gallon totes (2200# net).

MANAWET SMO in concentrated form is irritating to skin and eyes. Eye protection and protective clothing should be worn during handling.

MANAWET SMO should be stored in closed containers above 45°F (7°C). Spills and residues may be cleaned up with water. MANAWET SMO may turn hazy or form a gel during prolonged storage. Gentle heating to 45-50°C will yield a clear product.

All data is believed to be correct; however, should not be accepted as a guarantee of accuracy without confirming tests in your own plant or laboratory.

Material Safety Data Sheet

Manawet-SMO

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME: MANUFACTURERS CHEMICALS, LLC
MANUFACTURER'S ADDRESS: 4325 OLD TASSO ROAD | P.O. BOX 2788 CLEVELAND, TN 37312
EMERGENCY PHONE NUMBER.... 423-476-6666 OR CHEMTREC 800-424-9300
DATE PREPARED: APRIL 17, 2013
REVISED DATE: N/A
PRODUCT NAME: RAC-SMO
CHEMICAL DESCRIPTION: SULFATED METHYL OLEATE.
PRODUCT USE: CHEMICAL INTERMEDIATE.

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	TLV (UNITS)	PRODCAS #
NONE			

SECTION III - PHYSICAL DATA

BOILING POINT: 200 F
pH 1% SOLUTION: 7.0
SOLUBILITY IN WATER: SOLUBLE
% MOISTURE: 60
BROOKFIELD VISC. @ 75F <200 cps
SPECIFIC GRAVITY: 1.06 g/ml
APPEARANCE AND ODOR: CLEAR AMBER LIQUID WITH A MILD ODOR.
MISC. PHYSICAL DATA: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLASHPOINT: >212 F
FIRE POINT: >212 F
EXTINGUISHING MEDIA: PRODUCT WILL NOT BURN UNTIL ALMOST ALL THE WATER IS DRIVEN OFF; HOWEVER, USE EXTINGUISHING MEDIA AS APPROPRIATE FOR THE MATERIALS IN THE SURROUNDING FIRE.
SPECIAL FIRE FIGHTING PROCEDURES: WEAR A SELF CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE DISPLACEMENT MODE. WATER SPRAY SHOULD BE USED TO KEEP DRUMS COOL IF THEY ARE INVOLVED IN A FIRE SINCE HEAT WILL CAUSE THE PRODUCT TO EXPAND AND POSSIBLY CAUSE THE DRUMS TO EXPLODE FROM INTERNAL PRESSURE.

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SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY: STRONG OXIDIZERS

DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SULFUR OXIDES AND VARIOUS
HYDROCARBONS MAY BE RELEASED DURING A FIRE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NOT ESTABLISHED

OVER EXPOSURE EFFECTS/ROUTES OF ENTRY:

CAN CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT WITH THE UNDILUTED PRODUCT CAN CAUSE SKIN DRYNESS OR IRRITATION. SWALLOWING THIS PRODUCT MAY CAUSE GASTROINTESTINAL IRRITATION, DIARRHEA, NAUSEA, AND VOMITING.

FIRST AID PROCEDURES:

FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED SKIN AREAS WITH MILD SOAP AND WATER. IN CASE OF INTOXICATION, GIVE OXYGEN. AVOID MOUTH-TO-MOUTH RESUSCITATION.

CHRONIC OVER EXPOSURE EFFECTS:

N/A

CARCINOGENICITY INFORMATION:

NO COMPONENTS OF THIS PRODUCT ARE LISTED AS A CARCINOGEN BY IARC, NTP, OSHA, OR ACGIH.

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL:

CONTAIN SPILL AND SALVAGE AS MUCH MATERIAL AS POSSIBLE BY PUMPING TO A SALVAGE TANK OR DRUM. PICK UP REMAINING MATERIAL WITH A SUITABLE ABSORBENT.

WASTE DISPOSAL METHOD:

DISPOSE OF ONLY BY METHODS APPROVED BY AND USED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED.

VENTILATION:

LOCAL EXHAUST, GENERAL MECHANICAL.

PROTECTIVE GLOVES:

NEOPRENE OR OTHER CHEMICAL RESISTANT GLOVES.

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

SAFETY SHOWER / EYE BATH.

SECTION IX - SPECIAL PRECAUTIONS

SPECIAL INFORMATION:

STORE AT NORMAL TEMPERATURES AND CONDITIONS OF WAREHOUSING. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID ALLOWING PRODUCT TO FREEZE. WASH CONTAMINATED CLOTHING BEFORE RE-WEARING.

DOT HAZARD CLASS: N/A

DOT SHIPPING NAME: N/A

UN NUMBER:..... N/A

NA NUMBER:..... N/A

ADDITIONAL REGULATORY INFORMATION:
TSCA INVENTORY.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE

HMIS CODES	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERS. PROTECTION	B

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SECTION X – TRANSPORTATION INFORMATION

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Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not	-	-	-		-
TDG Classification	Not	-	-	-		-
ADR/RID Class	Not	-	-	-		-
IMDG Class	Not	-	-	-		-
IATA-DGR Class	Not	-	-	-		-

ALL DATA ARE BELIEVED TO BE CORRECT, HOWEVER, THIS SHOULD NOT BE ACCEPTED AS A GUARANTEE OF THEIR ACCURACY WITHOUT CONFIRMING TESTS IN YOUR OWN PLANT OR LABORATORY. THE DATA RELATES ONLY TO THE MATERIAL AS SUPPLIED AND DOES NOT RELATE TO COMBINATIONS WITH OTHER MATERIALS.

MC-205-9C
RAC-SMO