

MATERIAL SAFETY DATA SHEET

SULFONATED NAPHTHALENE FORMALDEHYDE – LIQUID

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION			
Product	:	SULFONATED NAPHTHALENE FORMALDEHYDE (NAFORES 801L).	
Synonym	:	Sodium Salt of Sulfonated Naphthalene Formaldehyde Sulfonated Admixture Polymer, Sodium Salt of Polynaphthalene Sulfonic Acid.	
Contact Information		METHANOL CHEMICALS COMPANY P.O. Box 2101, Jubail Industrial City 31951 Kingdom of Saudi Arabia. www.chemanol.com	
Tel. No.	:	00966 3 358 9905/ 358 1111	
Emergency Tel. No.	:	00966-3- 358 0384	
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredients			
Chemical Name	:	CAS No.	Proportion
Sodium salt of Poly-Naphthalene sulfonic acid	:	36290-04-7	30 - 45 % (w/w)
Water	:	7732-18-5	55 - 70 % (w/w)
SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	:	Brown liquid.	
PH @ 25°C	:	7.0- 9.0	
Boiling Point	:	105 °C	
Flash Point	:	Not available.	
Specific Gr. @ 25°C	:	1.19- 1.24	
Solubility	:	Soluble in water, methanol and acetone.	
Freezing Point	:	-2 °C	

SECTION 4: STABILITY AND REACTIVITY DATA

Chemical Stability	: Stable under normal storage & application temperature.
Conditions of Instability	: Strong oxidizing agent and direct heat.
Instability Temperature	: Not available.
Materials to avoid	: Avoid contact with oxidizing materials.
Recommended materials for equipment	: Stainless steel (304), stainless steel (316), etc.
Corrosivity	: Not available.
Special Remarks on Reactivity	: Not available.
Hazardous decomposition products	: Not available.

SECTION 5: HAZARDS IDENTIFICATION

According to the present state of knowledge, provided that the product is handled correctly, there is no known danger to human.

SECTION 6: FIRE & EXPLOSION DATA

Fire and Explosion Hazards	: Non-flammable and non-explosive.
Flash Point & Flammable Limit	: Not available.
Explosion Hazards in presence of various substances	: Not available.
Hazchem Code	: None allocated.
Extinguishing Media	: Water Spray, Dry Chemical, CO2 or Foam.
Protective Measures	: Fire fighters should wear self-contained breathing apparatus and protective clothing.

SECTION 7: TOXICOLOGICAL INFORMATION

Routes of Entry	: Eye contact, ingestion.
Toxicity to animals	: Acute oral toxicity (LD 50): 3400 mg/Kg (RAT). (LC 50): No information found.
Effect on Contact:	
Eye Contact	: May cause slight irritation. Does not require label up.
Skin Contact	: Skin irritation is unlikely. Not absorbed through skin.
Sensitization	: Not expected to be a skin-sensitizer. But hypersensitive individual may develop an allergic reaction resulting in dermatitis, rash or hives.
Ingestion	: This product is an ingestion hazard. Swallowing significant amount may cause burns to the gastrointestinal track.
Inhalation	: Not hazardous incase of inhalation.
Chronic Effects on Human	: CARCINOGENIC EFFECT: Classified as - NONE by NTP. MUTAGENIC EFFECT: Not available. DEVELOPMENTAL TOXICITY: Not available. REPRODUCTIVE TOXICITY: Not available. It is imperative that all forms of exposure be kept to an absolute minimum.

SECTION 8: EXPOSURE & FIRST AID MEASURES

Inhalation	: No specific data. Get fresh air.
Skin Contact	: Rinse with water for a few minutes. Remove contaminated clothing and wash before reuse.
Eyes Contact	: Flush eyes with clean water for at least 15 minutes keeping eyelids open. If discomfort persists, consult a physician.
Ingestion	: Immediately give two glasses of water, if not unconscious. Do not induce vomiting. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering lungs. Loosen tight clothing such as collar, tie, belt etc. If victim is not breathing, perform mouth to mouth resuscitation. Seek immediate medical attention.

SECTION 9: ACCIDENTAL RELEASE MEASURES.

- Small spill and leak : Prevent product from entering drinking water, drainage system, waterways, water streams or soil. Absorb with an inert material and place in a closed container for disposal.
- Large spill : Evacuation area of none essential personnel. Use safety glass & gloves. Clean up large spills with a pump or vacuum truck. Prevent spilled product or contaminated wash water from entering drinking water supplies or water streams. Dispose of all waste in accordance with applicable government regulations.

SECTION 10: HANDLING AND STORAGE

- Storage : Keep containers tightly closed; in a cool (around 25C), well ventilated place. Avoid contact with strong oxidizing agents. Keep away from heat & sources of ignition.
- Handling Procedures & Equipment : Handle with care & avoid unnecessary personal contact. Wash thoroughly after handling. Avoid contact with eyes. Wear suitable protective clothing. Employ grounding of equipments.

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls : Use process enclosures. If user operations generate dust, fume or mist, use proper filtration and ventilation.
- Personal Protection : Eye Protection – chemical workers goggles, Glove type – nitrile rubber or PVC gauntlets, Respirator type- vapor respirator, Footwear - chemical resistant footwear.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	:	No information found.
BOD5 and COD	:	The BOD5 is 24000 (5 days). The COD IS 1800,000 mg/l.
Biodegradability	:	Biodegradable, further data not available.
PRODUCTS OF BIO-DEGRADATION	:	Possibly hazardous short-term degradation products are not likely. However long term degradation product may arise.
Toxicity of products of Bio-degradation	:	No information found.

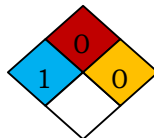
SECTION 13: DISPOSAL CONSIDERATION

Recycle if possible. Any waste or contaminated spills should be disposed off in accordance with local environment control regulations or USEPA guidelines using a registered waste disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Packaging in 24000 litres ISO tank containers, 220 litres drums and 1000 litres IBC cans.		
Transport classification		Non-flammable
Substance Identification Number		Not applicable.
IMCO Class		Not applicable.
Packing Group		Not applicable.
ADR/ADNR/RID/IATA/IMDG		Not restricted.
MARITIME Transportation		Not pollutant.
DOT		Not a DOT controlled material (United States).
		
Emergency Action Code		Not applicable.
UN number		Not regulated.
Dangerous goods class		None allocated.
Subsidiary Risk		None allocated.

SECTION 15: REGULATORY INFORMATION

HCS(USA)	:	Not controlled under the HCS (United States).									
DSCL(EEC)	:	This product is not classified according to EU regulations & does not require a hazard warning label.									
International Regulations Lists	:	No ingredient of this product is subject to the reporting requirements of section 313 of the title III of the super fund amendments and reauthorization act 11 (SARA 1986) and 40 CFR Part 392 of the United States.									
NFPA rating(estimated)	:	Health: 1, Flammable: 0, Instability: 0									
Hazardous material information system.	:	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal Protection</td><td>G</td></tr></table>		Health Hazard	1	Fire Hazard	0	Physical Hazard	0	Personal Protection	G
Health Hazard	1										
Fire Hazard	0										
Physical Hazard	0										
Personal Protection	G										
Risk phrases	R36	Irritating to Eyes.									
Safety phrases	S 9	Keep containers in well ventilated Area									
		25	Avoid contact with eyes.								
		37/39	Wear suitable gloves and eye/face								

SECTION 16: OTHER INFORMATION

References: Not available.

Other Special considerations: Not available.

Last Updated: August 2014.

Information Contact: Technical Services Department.

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