



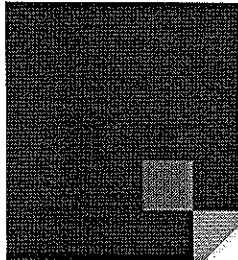
Surface Chemistry

Product Data

Morwet® EFW Powder

Specifications

	Min	Max
Activity (%)	95	
Moisture (%)	--	2
pH 5% solids	7.5	10
Appearance (@ 25C)	Tan powder	



The specifications & properties listed above are for products manufactured in the United S

All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel Surface Chemistry LLC, however, makes no warranty as to the accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. This information contained herein supersedes all previously issued bulletins on the subject matter covered.

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MATERIAL SAFETY DATA SHEET

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Product name: MORWET EFW POWDER

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: MORWET EFW POWDER

Chemical name: Sodium alkylnaphthalenesulfonate blend

Supplier: Akzo Nobel Industrial Specialties, Inc.
300 South Riverside Plaza
Chicago, IL 60606-6697, USA

Emergency telephone number: Akzo Nobel Emergency Response (24 hours) 914-693-6946
CHEMTREC (24 hours) 800-424-9300

For MSDS, Product Safety, or regulatory inquiries, call: Mike Curl 713-434-4421

Customer Service: 877-948-2601

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
Sodium alkylnaphthalenesulfonate	Trade secret	
Anionic surfactant	Trade secret	
Sodium sulfate	7757-82-6	< 2.0 %
Water	7732-18-5	< 2.0 %
Naphthalene	91-20-3	< 0.002 %

3. HAZARDS IDENTIFICATION

APPEARANCE

Physical state: Powder
Color: Tan



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Odor

Mild acrid sulfonate

EMERGENCY OVERVIEW

WARNING!

CAUSES EYE AND SKIN IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

AIRBORNE DUST PARTICLES MAY FORM EXPLOSIVE AIR-DUST MIXTURE.
SEE SECTION 11 FOR INFORMATION ON CHRONIC HEALTH EFFECTS.

POTENTIAL HEALTH EFFECTS

Swallowing

Acute effects

Symptoms of overexposure via ingestion include nausea and vomiting.

Skin absorption

Acute effects

Exposure to small quantities is not expected to cause adverse health effects.

Inhalation

Acute effects

Dust may cause irritation of the respiratory tract.

Skin contact

Acute effects

Causes moderate irritation.

Eye contact

Acute effects

Causes severe irritation.

POTENTIAL ENVIRONMENTAL EFFECTS

This product is expected to be moderately toxic to aquatic organisms.

4. FIRST AID MEASURES

Swallowing

Obtain medical attention immediately.

Skin

Immediately flush skin thoroughly with water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention if irritation persists.



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Inhalation

Remove to fresh air. Obtain medical attention if symptoms persist.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: > 94 °C (> 200 °F)

Special protective equipment for firefighters

Use self-contained breathing apparatus when fighting fires in enclosed areas.

Extinguishing media

Suitable: Extinguish with:

- water fog
- dry chemical
- CO₂
- alcohol resistant foam
- water spray

Unsuitable: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment.

Methods for cleaning up

Eliminate sources of ignition.
Sweep up and collect in a suitable container for disposal.
Sweep up using non-sparking equipment.
Observe government regulations.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Prevent accumulation of dust particles. Avoid dispersion of dust to reduce fire and explosion potential. Avoid



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sparks and flame under dust conditions. Do not get in eyes, on skin, on clothing. Wear recommended personal protection equipment.

STORAGE

Storage requirements

Causes eye irritation. Store at ambient temperature. Keep drums tightly closed to prevent contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Hand protection / protective gloves

Neoprene

Eye protection

Monogoggles

Skin protection

Rubber or plastic apron

Industrial hygiene measures

Remove contaminated clothing and clean it.

EXPOSURE LIMITS

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Particulates not otherwise regulated	TWA, OSHA	15.0 mg/m3	Total dust
	TWA, OSHA	5.0 mg/m3	Respirable fraction
	TWA - ACGIH	10.0 mg/m3	Total inhalable dust
	TWA - ACGIH	3.0 mg/m3	Respirable fraction
<u>Component</u> Naphthalene	TWA, OSHA	50.0 mg/m3	<u>Remark</u>
		10.0 ppm	
	STEL, OSHA	75.0 mg/m3	
		15.0 ppm	
TWA (skin), ACGIH	10.0 ppm		
	STEL, ACGIH	15.0 ppm	



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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Powder
Color	Tan
Odor	Mild acrid sulfonate

OTHER PROPERTIES

Boiling point	Decomposes
Melting point	Not determined
pH	7.5 - 10 Concentration: 50 g/l
Vapor pressure	Negligible
Vapor density (air=1)	Non Volatile
Solubility in water	Soluble
Flash point	> 94 °C (> 200 °F) Method: Pensky-Martens closed cup ASTM D 93
Percent volatiles	0 - 2 %(m)

10. STABILITY AND REACTIVITY

Stability: Stable.

Stability - Conditions to avoid
Stable under normal conditions.

Incompatible materials
Strong oxidizing agents.

Hazardous combustion products
Carbon monoxide.
Carbon dioxide.
Oxides of sulfur.

Hazardous polymerization: Will not occur.



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11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Assessment

In a two year inhalation study, the National Toxicology Program (NTP) found there was clear evidence of carcinogenic activity of naphthalene in male and female rats based on increased incidences of respiratory epithelial adenoma and olfactory epithelial neuroblastoma of the nose. Naphthalene is classified by the International Agency for Research on Cancer (IARC) as Group 2B - "human inadequate evidence, animal sufficient evidence".

12. ECOLOGICAL INFORMATION

This product is expected to be moderately toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

General: It is our opinion this product is not a RCRA hazardous waste. It is the generator's responsibility to make their own determination as to the RCRA status of waste they generate. We have not performed a Toxicity Characteristic Leachate Procedure (TCLP) on this product. Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

Non-cleaned packages
Dispose of washing solution in the same way as product.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.
Freight description road: CLEANING, SCOURING OR WASHING COMPOUNDS, N.O.I.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.



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15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Naphthalene	RQ 100 pounds for naphthalene	91-20-3 < 0.002

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

None.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

None.

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

None.

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Water	7732-18-5	
Sodium sulfate	7757-82-6	
Sodium alkylnaphthalenesulfonate	Trade secret	136411-5338P
Anionic surfactant	Trade secret	136411-5087P

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard

CHEMICAL INVENTORY

United States: The ingredients of this product are on the TSCA inventory.

16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS

Please consult the product and/or application information bulletins for this product.



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HMIS RATING

Health: 2	Flammability: 1	Reactivity: 0	PPI: -
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

The opinions expressed herein are those of qualified experts within Akzo Nobel. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Akzo Nobel, it is the user's obligation to determine the conditions of safe use of the products.