



MATERIAL SAFETY DATA SHEET

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SECTION I - CHEMICAL PRODUCT

Identity: Dawn Spray for Tough Food Cleaning

Brands: **DAWN POWER DISSOLVER**

Hazard Rating:

Health:	2	4=EXTREME
Flammability:	1	3=HIGH
Reactivity:	1	2= MODERATE
		1=SLIGHT

Emergency Telephone Number: 1-800-725-3296 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients: Solvents (MEA), surfactant cleaning agent (amine oxide), dishware, flatware, and dishwasher protection agents (sodium silicates), stabilizing agents, and perfume in a water base.

This mixture, when tested as a whole, is considered an eye and skin irritant within the meaning of the OSHA Hazard Communication Standard.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Range</u>	<u>LD50/LC50</u>
Monoethanolamine	MEA	141-43-5	NIOSH REL 3 ppm / 8 mg/m ³ NIOSH STEL 6 ppm / 5 mg/m ³ ACGIH TWA 3 ppm ACGIH STEL 6 ppm / 15 mg/m ³	3--7 %	N/A
Sodium Hydroxide	Caustic soda	1310-73-2	ACGIH TLV: 2 mg/m ³	<1%	N/A

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Eye Contact:	Eye irritant.
Skin:	Skin irritant
Inhalation:	Mucous membrane irritant
Ingestions:	Mucous membrane irritant

Signs and Symptoms of Exposure:

Ingestion: Oral ingestion may result in irritation of the mouth and gastrointestinal tract, with nausea, vomiting and diarrhea. Substantial ingestions may produce moderate gastrointestinal irritation.

Eye Contact: May cause transient irritation (stinging, tearing, itching, swelling, and/or redness) of the eyes.

Inhalation: Inhaling aerosolized products may cause irritation of the mucous membranes.

Skin Contact: May cause mild to moderate irritation (redness, drying, cracking), depending on exposure.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Skin contact:	May cause mild to moderate irritation, depending on exposure. Rinse affected area with water to minimize irritation. If needed apply cold compress to relieve irritation. Discontinue use of product. If symptoms persist, seek medical advice.
Eye contact:	Transient irritation where redness or stinging may result. No permanent damage expected. Rinse thoroughly with plenty of lukewarm water for 2-3 minutes. If symptoms persist, seek medical advice.
Ingestion:	Possible gastro-intestinal irritation with nausea, vomiting, diarrhea. Drink water to dilute product. Do not induce vomiting. Act immediately to reduce possibility of mucosal irritation. If symptoms persist, seek medical advice.
Inhalation:	Inhaling aerosolized products may cause irritation of the mucous membranes. Go in open air and ventilate suspected area. If irritation is experienced, mouth and throat may be rinsed with water. Aerosolized product adhering in the nasal cavity may be rinsed / diluted with saline/plain water. If irritation or asthma-like symptoms persist, seek medical advice.

Other: KEEP OUT OF REACH OF CHILDREN. Do not reuse this package for storing beverages or other liquids.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Pensky-Martens CC): 180 °F	Explosive Limits:	<i>LEL:</i> N/A	<i>UEL:</i> N/A
Extinguishing Media: CO2, Water or Dry chemical are all acceptable			
Special Fire Fighting Procedures: None			
Unusual Fire Hazards: None			
Stability	<i>Unstable:</i>	<i>Conditions to Avoid:</i> None known	
	<i>Stable:</i> Basically stable		
Incompatibility (Materials to Avoid): Acids and all acidic compounds although all possible incompatibilities have not been identified			
Hazardous Decomposition/By Products NK			
Hazardous Polymerization:	<i>May Occur:</i>	<i>Conditions to Avoid:</i> See 'Incompatibility' above	
	<i>Will Not Occur:</i> X		

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prior to exposure, cover any exposed skin and eyes. Peel off and wash any clothing that becomes wet with the product.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. 'Normal' undiluted waste from this product is RCRA "Corrosive" D002 classification. Check pH before sewerage. pH trim may be necessary if waste has pH of 12.5 or above. Liquids should not be put in landfills. Household waste from this product may be disposed of down the sewer.

Steps To Be Taken in Case Material is Released or Spilled: Contain the spill. Try to prevent larger quantities from reaching waterway or sewer. Use sorbents if needed. Dispose of resulting waste as appropriate (check pH).

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: No unusual precautions necessary.

Other Precautions: None.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation *Local Exhaust:* None required with normal consumer use.

Special: None

Mechanical (General): General dilution ventilation is acceptable.

Other: None

Eye Protection: None required with normal consumer use.

Industrial Setting: For splash protection use chemical goggles. Eye wash fountain is needed.

Protective Gloves: None required with normal use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for any direct contact.

Other Protective Equipment: None needed

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: N/A

Specific Gravity (H₂O=1): 1.04 g/cc

Vapor Pressure (mm Hg): N/A

Percent Volatile by Volume (%): > 5%

Vapor Density (Air=1): N/A

Evaporation Rate (nBuOAc=1): NK

Odor Threshold: N/A

Freezing Point: NK

Coefficient of Water/Oil Distribution: N/A

pH (10% solution): 12.0 (neat pH is ~13)

Reserve Alkalinity: ~2.6 g NaOH/100 mL

Solubility in Water: Miscible with water. Contains small amount of insoluble, colloidal size particles.

Appearance and Odor: Cloudy, Viscous liquid.
Product is perfumed.

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: Mixing with strong acids

Conditions to Avoid: Storage near acids

Materials to Avoid: Acids

Hazardous Decomposition Products: None known

Other Recommendations: None

SECTION XI - TOXICOLOGICAL INFORMATION

This product is not expected to be acutely toxic. Emetic properties are not known. If large quantities are ingested, treat symptomatically, do not induce vomiting. If irritant effects are seen, these will be mild to moderate, depending on exposure. If in contact with eyes flushing with water is recommended.

Estimated acute oral toxicity: LD50 (rats) ≥ 5g/kg

Skin irritation: Moderately to slightly irritating to skin

Eye irritation: Moderately irritating to eyes

Contact sensitization: Does not provoke a sensitization reaction

SECTION XII - ECOLOGICAL INFORMATION

The cleaning ingredients used in Dawn Power Dissolver are biodegradable.

Dawn Power Dissolver is safe for septic tanks

