

Section 1 - Identification

Product Name: **DISH MACHINE DETERGENT 350 (DMD 350)**

A liquid dish washing detergent with bleach.

Revised: 10/7/15

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Section 2 - Hazards Identification

Hazard category: Skin Corrosion, 1

Signal word: Danger

Hazard statement - Causes severe skin burns and serious eye damage

Pictogram: Corrosion



Precautionary statements

Prevention

Wash hands thoroughly after handling.

Wear protective gloves such as rubber or latex (not disposable latex)

Wear eye protection such as safety glasses with side shields.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center for medical advice.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center for medical advice.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center for medical advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage

Store locked up.

Disposal

Dispose of contents and empty container to in accordance with all applicable regulations for your locality

Section 3 - Composition / Information on Ingredients

Ingredient	Cas No.	Concentration
Water	7732-18-5	81%
Potassium hydroxide	1310-58-3	7%
Tetrapotassium pyrophosphate	7320-34-5	7%
2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt	68479-09-4	3%
Sodium hypochlorite	7681-52-9	1%
Potassium silicate	1312-76-1	1%

Section 4 - First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, lifting upper and lower eyelids occasionally. If eye irritation persists: Get medical attention.

Skin Contact: Immediately flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes. If irritation persists, get medical attention. Wash clothing before reuse.

Inhalation: If affected, move exposed person to fresh air. If irritation persists get medical attention.

Ingestion: If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Extinguishing Media: Any, except do not use soda-acid extinguishers.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: None.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear gloves and eye protection as described in section 8. Clean up small spills with a rag or mop. Spills of 4 gallons or less can be washed to a sanitary sewer with plenty of water. Larger spills may require additional protective clothing. Larger spills should be diked to prevent spreading and then collected into clean pails or drums.

Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet. Store separate from acids in a cool, well ventilated area. Remove leaking containers.

Contains bleach. Do not mix with other cleaners, especially those containing ammonia or acids, because this could produce a dangerous toxic gas (chlorine). If this product is only used with an automatic chemical feed system there should never be a hazard. However, if hooked up improperly, spilled or misused, gas could accidentally be produced. If gas is accidentally produced immediately flush the mixture down a drain with lots of running water, if this is safely possible. Immediately open windows, if possible, and if gas is irritating to eyes or lungs, leave the immediate area of the accident. The smell of chlorine is not itself hazardous. If the smell is strong enough to cause any symptoms of irritation or nausea it is hazardous. Avoid prolonged breathing of even slight amounts of gas. In many cases evacuation of the building is NOT necessary unless a large quantity of gas was produced. However, any area where irritation occurs to occupants should be evacuated. Re-enter areas only when gas has dissipated or with proper protective equipment. If adequate ventilation is not available to dissipate the gas or more than a small amount of chemical was mixed call 911. Assistance is available through our 24 hour emergency 800 number. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan.

Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
Potassium hydroxide	1310-58-3	7%	2 mg/m ³ (2)	-	2 mg/m ³ (3,4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous
Ingredients not shown either have no known limits or are below reportable levels in section 3 above.

Ventilation: Good room ventilation. Four air changes per hour should be adequate.

Respiratory Protection: None when used as directed. If there is a large spill a respirator for chlorine may be needed.

Gloves: Wear rubber or latex gloves when changing containers, handling open containers or cleaning up spills. Do not use disposable latex gloves. Disposable Nitrile gloves are good.

Eye Protection: Wear safety glasses with side shields or chemical goggles or a face shield when changing containers, handling open containers or cleaning up spills.

Other Protective Equipment: When cleaning up large spills wear a vinyl or rubber apron and impervious shoes. An eyewash station should be located within 10 seconds travel time of the use area.

Section 9 - Physical and Chemical Properties

Appearance and Odor: Clear, light yellow liquid with chlorine (bleach) odor.	
Odor Threshold: 0.002 ppm for chlorine in air	Vapor Pressure: Not Available
pH: 1% solution 12.5 ± 0.5	Vapor Density: Not Available
Melting Point: Not Available	Relative Density (Specific Gravity): 1.28)
Freezing Point: Not Available	Solubility(ies): Water: Complete
Boiling Point, Initial: 215° F.	Partition coefficient: Not Available
Boiling Range: Not Available	Auto-ignition Temperature: Not Available
Flash Point: none. (ASTM D-56 closed cup)	Decomposition Temperature: Not Available
Evaporation Rate: The same as water.	Viscosity: Same as water.
Flammability: (solid, gas): None.	Volatiles Percent: 84%
Upper Explosive Limit: Not Applicable	V.O.C.: 0%
Lower Explosive Limit: Not Applicable	

Section 10 - Stability and Reactivity

Incompatibility: Acids, ammonia

Hazardous Decomposition Products: Chlorine

Examples of products containing acids are delimer / demineralizers, bowl cleaners and phenolic disinfectants. Many window cleaners and floor strippers contain ammonia.

Section 11 - Toxicological Information

Primary Routes of Entry: Skin contact; Skin absorption; Inhalation; Ingestion

Potential Health Effects:

Eyes - causes severe irritation and damage, redness, tearing, blurred vision, may cause blindness.

Skin - causes severe irritation. Prolonged contact can cause permanent damage to skin.

Swallowing - causes gastrointestinal irritation and burns, nausea, vomiting, diarrhea.

Breathing - excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, nausea.

Chlorine IDHL: 10 ppm

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of up to 4 gallons of concentrate in the sanitary sewer with a large amount of water. Some sewage departments may allow you to dispose of larger quantities without neutralizing. Call them for approval. Larger amounts may have to be neutralized to within the pH limits of your waste water treatment system before disposal. Call Damon Industries at 1-800-362-9850 if you need neutralizing instructions.

Section 14 - Transport Information

D.O.T.: UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PG II (Contains potassium hydroxide and sodium hypochlorite)

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 16 - Other Information

NFPA: H:2 F:0 I:1 **HMIS® III:** H:3 F:0 P:1 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 2/28/15. Corrected **Hazard statement** - Causes severe skin burns and serious eye damage.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.