



MATERIAL SAFETY DATA SHEET

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To Reorder Call:
800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
 24 Hour INFOTRAC (US and CANADA): **800-535-5053**

PRODUCT NAME
 UNITED 358 MACHINE DISHWASHING
 LIQUID DETERGENT

USE/DESCRIPTION
 Machine Dishwashing Liquid Detergent

REVISION DATE
 September 17, 2012

HMIS III HEALTH (0 = Maximum Safety) 2

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) 0

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	1 Unstable if heated-use precaution.
	0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) 0

Susceptibility of Material to Burning.

4 Extremely flammable.	1 Must be preheated to burn.
3 Ignites at normal temperature.	0 Will not burn.
2 Ignites when moderately heated.	

PERSONAL PROTECTION: p & n



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (STEL-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Potassium hydroxide	1310-58-3	5-8	C: 2 mg//m3	C: 2 mg/m3	365 mg/kg (Rat/oral)	NE

3. HAZARDS IDENTIFICATION

Eyes: Severe irritant. Contact with liquid will damage eyes.

Skin: May cause irritation as the product is highly alkaline and corrosive.

Inhalation: Mists of this product are irritating to the respiratory tract and may cause breathing difficulty.

Ingestion: Corrosive. Concentrate solution causes destructive burns to mouth, throat, and stomach and may be harmful or fatal.

4. FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get prompt medical attention.

Skin: Wash with soap and plenty of water. If symptoms develop, seek medical attention.

Inhalation: Remove to fresh air. If symptoms develop, seek medical attention. If not breathing, give artificial respiration.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. If conscious, give several glasses of water or milk to dilute.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): None

Explosive Limits: Lower (LEL): ND Upper (UEL): ND

Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When strongly heated, as in a fire, this product may produce oxides of carbon.

Fire and Explosion Hazards: None known.

Extinguishing Media: Water, Dry chemical, Carbon dioxide.

Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing in chemical fires. Containers should be cooled with water to prevent vapor pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Flush up to one quart to sanitary drain; rinse area thoroughly.

Large Spills: Soak up with an inert absorbent and place in designated disposal container. Rinse area thoroughly.

7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area. Protect from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical safety goggles are recommended.

Skin: Chemical resistant gloves are recommended.

Respiratory: Normally not required.

Engineering Controls: Normally not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212°F/100°C **Specific Gravity:** 1.082 (H₂O=1)

Vapor Density: ND

Evaporation Rate: ND

Vapor Pressure: ND **Melting Point:** ND

Solubility in Water: Soluble **pH:** 13-14

Appearance and Odor: Green liquid with light scent.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: When strongly heated, as in a fire, this product may produce oxides of carbon.

Chemical Stability: Stable

Incompatibility: Oxidizing agents such as bleach; acids.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request

TDG: Available upon request

UN: Available upon request

15. REGULATORY INFORMATION

VOC (Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: ND

SARA Title III Section 311/312: ND

SARA Title III Section 313 Toxic Chemicals: None

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 358 MACHINE DISHWASHING LIQUID DETERGENT

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