AMRO NB81



MATERIAL SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME USE/DESCRIPTION Heavy Duty Descaler Descaler

24 Hour INFOTRAC (US and CANADA): 800-535-5053 **REVISION DATE** January 4, 2010

FOR MEDICAL AND TRANSPORTATION EMERGENCIES

HMIS III HEALTH (0 = Maximum Safety)

Always follow Label Directions and Cautions.

* Chronic 3 Serious 0 Minimal

See Hazards Identification Section of this MSDS

for more detailed information.

FLAMMABILITY (0 = Maximum Safety)

1 Must be preheated 3 Ignites at normal temperature. to burn.

2 Ignites when moderately heated. 0 Will not burn.

PHYSICAL HAZARD (0 = Maximum Safety)

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.

3 Strong shock of heat may

detonate-use monitors from behind explosion resistant

2 Violent chemical change possible-use hose stream from distance

1 Unstable if heated-use precaution.

Normally stable.

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Susceptibility of Material to Burning.

4 Extremely flammable.

PERSONAL PROTECTION: B



2. COMPOSITION/INFORMATION ON INGREDIENTS

				ACGIH	OSHA	LD50	LC50	
_	Hazardous Ingredients	CAS#	%Range	(TLV)	(TLV)	(Species/Route)	(Species)	
	Hydrochloric acid	7647-01-0	5-10	5 ppm Ceiling	5 ppm Ceiling	900 mg/kg (Rabbit/oral)	1108 ppm 1 hr Mouse	

3. HAZARDS IDENTIFICATION

Eyes: Causes severe burns and destruction of tissues. Small quantities can result in permanent damage and loss of vision.

Skin: May cause severe burns.

Inhalation: Vapors or mist may cause irritation to the throat, mucous membranes and upper respiratory tract. May cause damage to the lung tissue depending upon the extent of exposure.

Ingestion: Can cause very serious damage to the mouth, esophogus, stomach and other contacted tissues. May be 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. Never give anything by mouth to an unconscious person. Give several glasses of water 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 hydrogen chloride, oxides of carbon and other miscellaneous organic compounds.

Fire and Explosion Hazards: In the presence of extreme heat, as in a fire, this product may react with active metals and release hydrogen gas.

Extinguishing Media: Water spray; Dry chemical; Carbon dioxide; Alcohol foam

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

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Spills up to 1 gallon may be diluted with plenty of water and flushed to sewage 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses are recommended.

Skin: Chemical resistant gloves are recommended.

Respiratory: To avoid breathing fumes, use NIOSH-approved respirator.

Engineering Controls: Mechanical ventilation recommended when handling in enclosed/tight spaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 183 F/83 C Specific Gravity: 1.055 (H2O=1) Vapor Pressure: ND Melting Point: ND

Vapor Density: >1 (Air=1) Evaporation Rate: >1 (H2O=1) Solubility in Water: Complete pH: 1

Appearance and Odor: Clear pink liquid with hydrogen chloride scent

10. STABILITY AND REACTIVITY

Hazardous Polymerization: None

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

other miscellaneous organic compounds.

Chemical Stability: Stable

Incompatibility: Oxidizing agents such as bleach; strong bases

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? No

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state 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: Hydrochloric acid C# 7647-01-0

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.