

CRF-440

MATERIAL SAFETY DATA SHEET

Section I - Identification

Manufacturer's Name **Manufactured for Liberty Industries, Inc. by Webco Chemical Corp.**
Manufacturer's Address 420 W. Main St. Dudley, Ma. 01571
Manufacturer's Phone Number 1-508-943-9500
Emergency Phone Number CHEMTREC - (800) 424-9300
Product information Call 1-508-943-9500
Effective Date 6/16/2006
Chemical Name CRF-440
DOT Shipping Description Isopropyl Alcohol Solution, 3, UN1219, II
Chemical Family Solvent based cleaning compounds
Chemical Comment This product does not have any chemicals reportable under Section 313 of Title III of SARA.
Chemical Formula This product is flammable and should be kept away from heat and other sources of ignition.

Section II - Hazardous Ingredients

<u>Hazardous Components</u>	<u>CAS Number</u>	<u>Hazardous %</u>	<u>TLV (Units)</u>
Ammonium Hydroxide	1336-21-6	<1.0%	50 ppm
Isopropyl Alcohol	67-63-0	5.0-15.0%	400 ppm

Section III - Physical Data

Boiling Point (°F) 212
Volatility/VOL (%) 100%
Melting Point (°F) N/A
Vapor Pressure (mm Hg) N/A
Vapor Density (Air = 1) N/A
Solubility In H₂O Complete
Appearance/Odor Clear Liquid with ammoniated odor
Specific Gravity (H₂O = 1) 0.963
Evaporation Rate N/A
pH 7.5-8.5 of a 10% solution

Section IV - Fire & Explosion Hazard Data

Flash Point (°F) 90
Lower Flame Limit N/A
Higher Flame Limit N/A
Extinguish Media Use water spray, chemical foam, carbon dioxide, or dry chemical.

Special Fire Fighting Procedures	Use extinguishing media applicable to primary source of fire.
Unusual Fire Hazard	None

Section V - Health Hazard Data

Routes of Entry	Ingestion and inhalation
Health Hazards	Irritation
NTP	No
IARC Monographs	No
OSHA Regulated	No
Threshold Limit Value	Not established for this product - see Section II for TLV of hazardous ingredients.

Over Exposure Effects

Eye Contact: Burning or irritation of eyes.

Skin Contact: Drying and possible dermatitis upon prolonged contact.

Inhalation: Airborne concentrations of mists or spray can cause damage to the upper respiratory tract and cause nausea, dizziness, and drowsiness.

Ingestion: May result in vomiting. Aspiration (breathing of vomit into lungs) must be avoided as even small quantities may result in aspiration pneumonia.

First Aid

Eye Contact: Flush immediately with plenty of water for at least 15 minutes and get medical attention.

Skin Contact: Wash thoroughly with soap and water. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting! Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

Inhalation: Remove to fresh air, for breathing difficulty, give oxygen or artificial respiration.

Section VI - Reactivity Data

Chemical Stability	Stable
Conditions To Avoid	Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.
Incompatible Materials	None known
Decomposition Products	From thermal reaction carbon dioxide and carbon monoxide.
Hazardous Polymerization	Will not occur.
Polymerization Avoid	Not applicable

Section VII - Spill Or Leak Procedure

For Spill	Absorb with inert material and dispose of in accordance with applicable regulations.
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations.

Section VIII - Special Protection

Respiratory Protection	Use a NIOSH/OSHA approved mask when spray mist is present and/or the TLV has been exceeded.
Ventilation	Recommended to keep below the TLV.
Protective Gloves	Use of rubber gloves when working with cleaners is recommended to help reduce skin irritation.
Eye Protection	Safety glasses
Other Protection	Rubber or plastic apron

Section IX - Special Precautions

Label Summary	HMIS
Health Hazard	3
Flammability	3
Reactivity	0
Personal Protection	G
Handling & Storage	Keep out of reach from children. For industrial or institutional use only. Keep from freezing.