



IronSolv Plus™
Non-Regulated DeScaler

EMERGENCY TELEPHONE 1-800-535-5053 (INFOTRAC)

DESCRIPTION

Trade Name: IronSolv Plus™
Chemical Name: Non-Hazardous DeScaler
HMIS Rating: Health 1
Flammability 0
Reactivity 1
Personal Protection J
Dot Ship Class Non-Regulated
Emergency Response Guide Number None Listed

HAZARDOUS INGREDIENTS

Components	Cas #	%	OSHA PEL	ACGIH TLV	Other Limits
Ammonium Chloride	12125-02-9	<20			
Sodium Glucohepponate	31138-65-5	<20	N/E	N/E	
Non-Hazardous Components		>70			
Total		100			

PHYSICAL DATA

Physical State: Dark Amber
Appearance and Odor: Characteristic Odor
pH: 5-6
Melting Point: N/A
Boiling Point: 212° F
Vapor Pressure (mm Hg): Same As Water
Vapor Density (Air = 1): Same As Water
Solubility in Water: Complete
Percent Volatile (By Weight): 70 ±
Specific Gravity (H₂O = 1): 1.04 to 1.05
Evaporation Rate ((H₂O = 1): 1.00
Water Reactive: Generate heat upon water mixing
Corrosion test (skin): >240 minutes for in vitro dermal test Method 1120
Corrosion tests (metals): 9.01mpy mild steel, 2.67mpy copper, 67.23 galvanized steel, 36.25mpy on Aluminum on 24 hours exposure

FIRE and EXPLOSION DATA

Flash Point: N/A
Auto-Ignition Temperature: N/A
Lower Flammable Limits in Air (% by Volume): N.I.A.
Upper Flammable Limits in Air (% by Volume): N.I.A.
Fire Extinguishing Agents Recommended: N/A
Special Fire Fighting Precautions: Wear self-contained breathing apparatus approved by NIOSH.
Unusual Fire and Explosion Hazards: None

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REACTIVITY DATA

Stability	Stable
Decomposition Products	NO _x , CO _x on combustion
Hazardous Polymerization	Will Not Occur
Incompatibility	Avoid Alkalies, Oxidizers or any reactive material
Conditions to Avoid	Extreme temperatures

HEALTH HAZARD DATA

Inhalation	High mist concentration can cause irritation. Remove to fresh air. Call a physician if any difficulties persist.
Ingestion	High mist concentration can cause irritation. Do not induce vomiting. Dilute by giving large amount of water. Get immediate medical attention.
Skin	High mist concentration can cause irritation. Flush skin with water for at least 15 minutes. If irritation persists, get medical attention.
Eyes	High mist concentration can cause irritation. Immediate flush eyes with water for 15 minutes. Get medical attention immediately.
Unusual Chronic Toxicity Carcinogen Listed in	None Known Not Listed

PRECAUTIONS FOR SAFE HANDLING AND USE

Leak and Spill Procedures	Spills should be handled immediately by neutralization and dilution of the spilled product by the use of soda ash (sodium carbonate), lime (calcium hydroxide, calcium oxide) with large amounts of water. For an interior (inside a closed space) spill be aware that the use of soda ash and limestone will evolve carbon dioxide and that ample ventilation be provided.
Handling and Storing Procedures	Avoid contact with skin, eyes, or clothing. Do not inhale mists. Use normal personal hygiene and housekeeping.
Waste Disposal Methods	As per Local and Federal Regulations. This material is not a solid waste when discarded into a domestic sewer according to 40 CFR 261.4. For disposal otherwise consult your local and Federal regulations use Waste reference U123.
Other Precautions	Restrict exposure of those with central nervous system, kidney or liver disorders.

SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH Approved Respirator
Protective Gloves	Rubber Gloves
Eye and Face Protection	Chemical Splash Goggles and/or Face Shield
Ventilation	Local Exhaust
Other Protective Equipment	Rubber Apron, Eye Wash, and Quick Drench Shower.

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SARA TITLE III REGULATORY INGREDIENT INFORMATION

Title III Section 302/304 Extremely Hazardous Substance List and/or CERCLA Hazardous Substance List.

Requires reporting when release of 25,000 lbs (>2,500 gal) of this product

Component

CAS #

Percent

TPQ (lbs)

Title III Section 313 Toxic Chemical Annual Release Reporting Requirements (SARA Section 313 Toxic Chemical List).

Component

CAS #

Percent

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine, if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operations.

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