



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER  
US9111Z 493Z XX

MANUFACTURER'S NAME & MAILING ADDRESS U S Chemical - A DIVISION OF HYDRITE CHEMICAL CO. 316 Hart Street Watertown, Wisconsin 53094 USA	PREPARED BY D. E. Kenas	SIGNATURE <i>David E. Kenas</i>
EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) Medical Emergency ONLY: 1-800-228-5635 Ext. 075	PRODUCT INFORMATION TELEPHONE NO. (8-5 CST) Product Information: 1-800-558-9566	

## SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME <b>RIF HEAVY-DUTY DEGREASER</b>		
PRODUCT DESCRIPTION Ready-To-Use Grill and Oven Cleaner (Alkaline Degreaser)	FORMULA Proprietary Blend	CHEMICAL FAMILY N.A.
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME Compound, Cleaning, Liquid (Contains Potassium Hydroxide, Sodium Hydroxide)	
	SHIPPING ID NUMBER NA1760	HAZARD CLASS Corrosive Material

## SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT N.A.	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) 1.065	PHYSICAL FORM Liquid	COLOR Fluorescent Yellow
VAPOR PRESSURE (mm Hg) N.A.	MELTING POINT N.A.	SOLUBILITY IN WATER Complete	SCENT None Added
VAPOR DENSITY (AIR = 1) N.A.	EVAPORATION RATE (BUTYL ACETATE = 1) N.A.	pH 2500 ppm SOLUTION N.A.	pH CONCENTRATE Greater Than 13.0
OTHER Non-Viscous, Clear Solution			

## SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME: COMMON NAME)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	PERCENT
Potassium Hydroxide: Caustic Potash [CAS Registry Number 1310-58-3]	2 mg/m <sup>3</sup> Ceiling Value	2 mg/m <sup>3</sup> Ceiling Value	None	3.0
Sodium Hydroxide: Caustic Soda [CAS Registry Number 1310-73-2]	2 mg/m <sup>3</sup> Ceiling Value	2 mg/m <sup>3</sup> Ceiling Value	None	2.5
Trisodium Nitrilotriacetate, Monohydrate [CAS Registry Number 18662-53-8]	Not Established	Not Established	None	>1.0
This product contains no other ingredient considered hazardous according to the criteria of 29 CFR 1910.1200, OSHA. However, this product contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 370, Section 311 and Section 312.				
NFPA RATING: Health-3/Flammability-0/Reactivity-0				
CARCINOGENICITY: This product contains the Trisodium Salt, Monohydrate form of Nitrilotriacetic Acid, commonly known as NTA. Nitrilotriacetic Acid (CAS Registry Number 139-13-9) is a National Toxicology Program listed anticipated carcinogen and is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, the U. S. EPA has taken no action to restrict use of NTA in laundry detergents because "the risks of using laundry detergents containing NTA are not significant". (See the Nov. 3, 1980, Federal Register, Volume 45, pages 72778 - 72780). Therefore, we believe NTA has been shown to be safe for use under normal conditions in laundry detergents and industrial cleansers since there is not direct, prolonged human contact.				

(CONTINUED ON REVERSE SIDE)

## SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES Splash-proof safety glasses, safety goggles, and an eye-wash station.	
	RESPIRATORY None required with normal use.	GLOVES Rubber (Latex). Protective Cuff or Gauntlet Type Preferred.
	OTHER Wear full-cover protective clothing to prevent repeated or prolonged contact.	
VENTILATION	GENERAL MECHANICAL Satisfactory. Maintain adequate ventilation. Keep levels below recommended TLV.	
	LOCAL EXHAUST Not ordinarily needed. Avoid inhalation of mists containing this product.	
PRECAUTIONS	HANDLING & STORAGE Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first-aid measures. Avoid inhalation, ingestion and contact with skin and eyes. Rotate stock regularly. Handle carefully to avoid damaging container. Keep container closed when not in use. Recommended storage temp. below 100° F. Keep out of children's reach.	

## SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION Inhalation of mists may cause irritation to nose, throat, and mucous membranes, tissue damage, and pulmonary irritation.
	INGESTION Harmful or fatal if swallowed. May cause discomfort, nausea, vomiting, and severe tissue damage to mouth, esophagus, stomach, and to other tissues. Corrosive to mouth, throat and stomach.
	SKIN & EYES SKIN: Contact may cause severe irritation, dermatitis, and chemical burns. Corrosive. EYES: Contact may cause tearing, severe irritation, burning, vision loss, and blindness.
	ACUTE & CHRONIC ACUTE: Corrosive to all body tissues. Harmful skin contact may not cause immediate pain. CHRONIC: None Known.
ROUTES OF ENTRY	INGESTION-X SKIN ABSORPTION-X SKIN-X EYES-X INHALATION-X TARGET ORGANS Eyes, Skin, Respiratory System.

## SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = N.A. UEL = N.A.	FLASH POINT = N.A.	METHOD USED = N.A.
STABILITY	STABLE	X	CONDITIONS TO AVOID Avoid mixing with any other cleaning product. Do not store at high temperatures. Recommended storage temp. <100° F.
	UNSTABLE		HAZARDOUS DECOMPOSITION PRODUCTS Mixing with incompatible materials may produce hydrogen, carbon monoxide, carbon dioxide, and other toxic and irritating fumes.
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID
	WILL NOT OCCUR		N.A.
INCOMPATIBILITY	MATERIALS TO AVOID Acidic materials, organic chemicals, and various metals (Aluminum, magnesium, zinc, tin, brass or bronze) which can generate flammable hydrogen gas.		

## SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA For fires in area, use appropriate media. For example: Water spray, dry chemical, carbon dioxide, or alcohol foam.
	SPECIAL PROCEDURES Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus.
	UNUSUAL HAZARDS Product may react with some metals such as aluminum, zinc, tin, etc., to release flammable hydrogen gas.
FIRST AID MEASURES	INGESTION: Do not induce vomiting. If patient is conscious and can swallow, administer milk or water. SKIN: Remove contaminated clothes, flood with water for 15 minutes. EYES: Flood with lukewarm (not hot) water poured from a large glass 2 or 3 inches from eyes. Remove contacts. Have patient blink as much as possible while flooding the eyes. Continue for 15 minutes. INHALATION: Move victim to fresh air. Give artificial respiration if patient is not breathing. ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-228-5635 Ext 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.
	STEPS TO BE TAKEN Wear proper protective equipment including rubber boots. Stop leak if you can do so without risk. Dike or dam large spills. Ventilate area if needed. Soak up with sand or other non-combustible inert absorbent materials. Flush area with water and follow with normal clean-up procedures. Keep combustibles away! Be careful as spills are slippery.
SPILLS	WASTE DISPOSAL METHOD Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding.
RD	N.A.

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