



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	STEEL BRITE NF
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PRODUCT CODE	SEA22110
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ISSUE DATE	05/18/01
SUPERCEDES	05/24/96

MANUFACTURER Ready Resources, Inc.
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EMERGENCY TELEPHONE NUMBER
 1-800-535-5053

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	EXPOSURE LIMITS			OTHER LIMITS
		OSHA PEL/TLV	ACGIH TLV	STEL	
Phosphoric Acid	7664-38-2	1 mg/m ³	1 mg/m ³	3 mg/m ³	NA
Sulfuric Acid	7664-93-9	1 mg/m ³	1 mg/m ³	ND	NA
Butoxyethanol	111-76-2	25 ppm	25 ppm	NA	NA
Ammonium Hydrogen Fluoride	1341-49-7	2mg/m ³ asF	25mg/m ³ asF	NA	NA

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes burns to skin, eye and mucous membranes.
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POTENTIAL HEALTH EFFECTS	
INGESTION	Burns
INHALATION	Damage to mucous membrane
EYE CONTACT	Burns
SKIN CONTACT	Burns

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink large quantity of water or milk. See a physician immediately.
INHALATION	Remove victim to fresh air. If victim is not breathing, give artificial respiration and get medical help immediately.
EYE CONTACT	Flush with water for 15 minutes. See a physician immediately.
SKIN CONTACT	Flush with water. If irritation persists, get medical attention.
NOTE TO PHYSICIAN	Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	NA	FLAMMABLE LIMITS	NA
% VOLATILE	NA		
EXTINGUISHING MEDIA	Water mist, dry chemical, CO2, alcohol foam.		
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.		
FIRE AND EXPLOSION HAZARDS	On prolonged contact with aluminum or zinc this product will produce hydrogen gas, which can form explosive mixtures in air.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Stop leak. Dilute spilled material with sodium bicarbonate solution to greater than pH 6.5.
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SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Keep containers closed when not in use. Store in a dry, cool place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	Use general mechanical ventilation to remove vapors at the source. Eyewash station is recommended.

	RESPIRATOR	Not necessary
X	GOGGLES / FACE SHIELD	Required; goggles should be chemical splash type
	APRON	Not necessary
X	GLOVES	Required; chemical resistant type
	BOOTS	Not necessary

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colorless liquid	BOILING POINT	225° F
ODOR	Acid	VAPOR PRESSURE	ND
pH	<2	VAPOR DENSITY	ND
SPECIFIC GRAVITY	1.126	EVAPORATION RATE (butyl acetate=1)	NA
SOLUBILITY IN WATER	ND		

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	No special precautions beyond standard safe industrial practices.					
INCOMPATIBILITY	Strong bases, aluminum or zinc.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Oxides of sulfur and carbon					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	None					

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910,Z

OTHER EFFECTS

ACUTE	Burns to eyes and skin. Harmful if inhaled.
CHRONIC	Not known
ORAL LD/50	Unknown

SECTION 12 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Flush diluted material to sewer.
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SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS	X		NOT HAZARDOUS	
DESCRIPTION	Corrosive liquid, n.o.s. (contains phosphoric acid and sulfuric acid), 8, UN 1760, PG II.					
SEATEX HM CODE	150					

SECTION 14 – OTHER INFORMATION

HMIS CLASSIFICATION

3	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
2	YELLOW	REACTIVITY
Acid	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Ready Resources, Inc. in connection with the use of this information.