



MATERIAL SAFETY DATA SHEET

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MSDS NO.: FUJI110-NC

SECTION 1 CHEMICAL PRODUCTS IDENTIFICATION

FMRP TONER

CONTAINER SIZE: 60 GRAMS/BTL X 1 BTL/BOX

PROCESS VOLUME MADE:

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO.	OSHA PEL	ACGIH TLV	REGULATION CODE	PERCENT
IRON OXIDE	1332-37-2	10 MG/M3	5 MG/M3	BV	<70
POLYETHYLENE	9002-88-4			BV	<30
CARBON BLACK	1333-86-4	3.5 MG/M3	3.5 MG/M3	BDEHIV	<5

REGULATION CODE DESCRIPTION

- | | |
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| B. EPA TSCA INVENTORY LIST 1989 | H. PENNSYLVANIA HAZARDOUS SUBSTANCE LIST |
| D. NEW JERSEY RIGHT TO KNOW LIST 1989 | I. MASSACHUSETTS SUBSTANCE LIST |
| E. CANADIAN INGREDIENT DISCLOSURE LIST | V. SARA TITLE III SECTION 311 AND 312 |

SECTION 3 HAZARDS IDENTIFICATION

ROUTES OF ENTRY.....: INHALATION, INGESTION, SKIN, EYES

	CARCINOGEN/POTENTIAL CARCINOGEN (Y/N)		
NTP? N	IARC MONOGRAPHS? N	OSHA? N	

LD50 : NA

HMIS RATINGS H - 1; F - 1; R - 0; P - C

HEALTH HAZARDS (ACUTE OVEREXPOSURE)

METAL FUME FEVER; MUSCULAR ACHES AND FEVER WITH CHILLS; SWEETISH OR METALLIC TASTE; DRYNESS OF THE THROAT; CONJUNCTIVITIS; CORNEAL HYPOPLASIA; ECZEMA; BRONCHITIS.

HEALTH HAZARDS (CHRONIC OVEREXPOSURE)

CHRONIC BRONCHITIS OR SIDEROSIS; PNEUMATOTUMORS; THE EXTRACTS OF CARBON BLACK ARE SUSPECTED AS CARCINOGENIC BY IARC.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE . . . : NO SPECIFIC CONDITION SPECIFIED.

SECTION 4 FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

EYES

IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION.

SKIN

IMMEDIATELY WASH WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF BURNED OR IRRITATED.

INHALATION

IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING INITIATE CPR. SEEK MEDICAL ATTENTION.

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SECTION 4 FIRST AID MEASURES - CONT'D

IMMEDIATELY SEEK MEDICAL ATTENTION. CALL LOCAL POISON CONTROL CENTER. DO NOT INDUCE VOMITING OR DILUTE INGESTED LIQUID BY DRINKING LARGE QUANTITIES OF WATER WITHOUT EMERGENCY MEDICAL INSTRUCTIONS. CONSULT 29 CFR 1910.151 REQUIREMENTS FOR MEDICAL SERVICES AND FIRST AID.

SECTION 5 FIREFIGHTING MEASURES

UPPER LOWER
FLAMMABLE LIMITS IN AIR (%): NA NA
FLASH POINT.....: NONE
METHOD.....: NA
AUTOIGNITION TEMP.....: NA
EXTINGUISHER MEDIA.....: CHOOSE MEDIA SUITABLE FOR SURROUNDING MATERIALS.

NFPA RATING: H-1; F-1; R-0; O-

SPECIAL FIREFIGHTING PROCEDURES

WATER SPRAY SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE AND TO DISPERSE VAPORS. AS IN ANY FIRE SITUATION, USE NIOSH/MSHA APPROVED POSITIVE PRESSURE BREATHING APPARATUS WHEN ANY MATERIAL IS INVOLVED IN A FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS...: NONE

SECTION 6 ACCIDENTAL RELEASE MEASURES/SHIPPING INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WEAR PERSONAL PROTECTIVE EQUIPMENT AND CLEAN UP THE SPILLED MATERIAL IN A MANNER TO PREVENT AIRBORNE RELEASE. PLACE MATERIAL IN A SUITABLE D.O.T. APPROVED CONTAINER FOR DISPOSAL.

WASTE DISPOSAL METHODS

DISCHARGE OF THIS WASTE TO A SANITARY SEWER MAY REQUIRE APPROVAL OF THE LOCAL PERMITTING AUTHORITY. OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DISPOSING OF ANY CHEMICAL SUBSTANCE.

SHIPPING INFORMATION

PROPER SHIPPING NAME.....: NA
HAZARD CLASS.....: NA
UN NUMBER.....: NA

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

AVOID CONTACT WITH SKIN AND EYES. HARMFUL IF SWALLOWED. AVOID BREATHING DUST. STORE IN A COOL, DRY, WELL VENTILATED SPACE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES LISTED IN INCOMPATIBILITY SECTION.

OTHER PRECAUTIONS

WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT INHALATION, SKIN, AND/OR EYE CONTACT.

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION . . . : RESPIRATORY PROTECTION IS NOT GENERALLY REQUIRED UNDER NORMAL USE CONDITIONS. IF RESPIRATORY PROTECTION IS NECESSARY, REFER TO FUJI'S RESPIRATOR SELECTION CRITERIA DOCUMENT FOR RESPIRATOR USE GUIDANCE. ALSO, REFER TO 29 CFR 1910.134 FOR OSHA COMPLIANCE PURPOSES.

VENTILATION REQUIREMENTS . . : GENERAL EXHAUST VENTILATION SATISFYING THE REQUIREMENTS OF ASHRAE STANDARD 62-1989, "VENTILATION REQUIREMENTS FOR INDOOR AIR QUALITY" SHOULD BE MAINTAINED. FRESH OUTDOOR AIR SHOULD BE SUPPLIED AT A MINIMUM RATE OF 20 CFM/PERSON. THE VENTILATION EFFECTIVENESS SHOULD BE SUFFICIENT TO PRODUCE GOOD MIXING THROUGHOUT THE OCCUPIED SPACE.

LOCAL EXHAUST : NOT GENERALLY REQUIRED.

MECHANICAL : GENERAL EXHAUST VENTILATION IS SUGGESTED.

SPECIAL : NONE

OTHER : NONE

PROTECTIVE GLOVES : BUTYL RUBBER, NEOPRENE, PVC, OR NITRILE GLOVES ARE ACCEPTABLE.

EYE PROTECTION : SAFETY GLASSES. EYE WASH. CONSULT 29 CFR 1910.133 FOR GENERAL REQUIREMENTS FOR EYE AND FACE PROTECTION.

OTHER PROTECTIVE

CLOTHING OR EQUIPMENT : PROTECTIVE APRON OR LAB COAT. CONSULT 29 CFR 1910.132 FOR GENERAL REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT.

WORK/HYGIENIC PRACTICES . . : WASH THOROUGHLY BEFORE EATING, DRINKING, SMOKING, OR LEAVING THE WORK PLACE. CONSULT 29 CFR 1910.141 FOR GENERAL REQUIREMENTS FOR SANITATION.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT : NA

VAPOR DENSITY (Air=1) : NA

MELTING POINT : >400 C (IF SOLID)

pH : NA

SPECIFIC GRAVITY : 2.1

FREEZING POINT : NA

VAPOR PRESSURE (mm Hg) : NA

EVAPORATION RATE

PERCENT VOLATILE : 0

(NA)=1 : NA

SOLUBILITY IN WATER : INSOLUBLE

REACTIVITY IN WATER : NONE

APPEARANCE AND ODOR . . : BLACK POWDER WITH NO ODOR.

SECTION 10 STABILITY AND REACTIVITY

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY) : EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID)

HYDRAZINE; FLUORINE; STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS : SHOULD NOT OCCUR. THERMAL DECOMPOSITION OR BURNING MAY YIELD TOXIC OR SUFFOCATING GASES SUCH AS CARBON MONOXIDE AND CARBON DIOXIDE.

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SECTION 10 STABILITY AND REACTIVITY - CONT'D

IS HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)?.....: N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION)... : NONE