



# MATERIAL SAFETY DATA SHEET

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MSDS NO.: FUJI112-NC

## SECTION 1 CHEMICAL PRODUCTS IDENTIFICATION

### MS 6000 TONER

CONTAINER SIZE: 350 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 |
|--|------------|----------|-----------|-----------------|---------|
| MODIFIED POLYMER OF BISPHENOL DERIVATIVE |            |          |           |                 |         |
|  | PMN        |          |           |                 | <70     |
| MAGNETITE                                | 1309-38-2  | 10 MG/M3 | 5 MG/M3   | BV              | <40     |
| HALO-ORGANO METAL COMPLEX                | 31714-55-3 |          |           | BV              | <6      |
| SILICA                                   | 7631-86-9  | *        | *         | BDEV            | <6      |

### REGULATION CODE DESCRIPTION

- B. EPA TSCA INVENTORY LIST 1989
- D. NEW JERSEY RIGHT TO KNOW LIST 1989
- E. CANADIAN INGREDIENT DISCLOSURE LIST
- V. SARA TITLE III SECTION 311 AND 312

### ADDITIONAL INFORMATION

\*THIS SILICA COMPOUND NOT LISTED ON OSHA Z-1-A TABLE. OTHER SILICA COMPOUNDS HAVE PEL'S AND TLV'S RANGING FROM 0.05 TO 6 MG/M3.

## 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

HMS 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; IRRITATION TO EYES AND RESPIRATORY SYSTEM.

### HEALTH HAZARDS (CHRONIC OVEREXPOSURE)

CHRONIC BRONCHITIS OR SIDEROSIS. PNEUMOCONIOSIS. SOME OF THE ORIGINAL POLYMERS, WHICH HAVE BEEN MODIFIED, HAVE BEEN FOUND TO BE EXPERIMENTAL CARCINOGENS/TUMORIGENS BY IMPLANT INTO ANIMALS. THERE IS INADEQUATE EVIDENCE FOR HUMAN CARCINOGENICITY FOR THE UNMODIFIED POLYMERS AND NO EVIDENCE TO INDICATE CARCINOGENICITY OF THE MODIFIED POLYMERS.

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.

**INGESTION**

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.....: NA   |       |       |
| 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

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**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. DO NOT STORE NEAR STRONG ACIDS. STORE AWAY FROM INCOMPATIBLE SUBSTANCES LISTED IN INCOMPATIBILITY SECTION.

**OTHER PRECAUTIONS**

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

**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

**MELTING POINT . . . . .** : >145C

**SPECIFIC GRAVITY . . . . .** : 1.8

**VAPOR PRESSURE (mm Hg): NA**

**PERCENT VOLATILE . . . . .** : 0

**SOLUBILITY IN WATER . . . .** : INSOLUBLE

**REACTIVITY IN WATER . . . .** : NONE

**APPEARANCE AND ODOR . . .** : FINE BLACK POWDER, PRACTICALLY ODORLESS.

**VAPOR DENSITY (Air=1) . . . . .** : NA

**pH . . . . .** : NA

**FREEZING POINT . . . . .** : NA

**EVAPORATION RATE**

(NA)=1 . . . . . : NA

**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; CHLORINE TRIFLUORIDE; MANGANESE TRIFLUORIDE; OXYGEN DIFLUORIDE; FLUORINE.

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

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

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