KCDS No.: 102067-02 TUFTONE MHBK-1 February 08, 2005 Kao Corporation Revised Date Set Up Date July 08, 2003

## MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : TUFTONE MHBK-1 SUPPLIER : Kao Corporation

ADDRESS : 1-3, Bunka 2-chome, Sumida-ku, Tokyo 131-8501 Japan

DIVISION : Chemical Division TELEPHONE NUMBER : 81-3-5630-7700 FAX NUMBER : 81-3-5630-7889 EMERGENCY TELEPHONE: 81-3-5630-7700

NUMBER

[2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION Preparation

INGREDIENTS AND CONCENTRATION RANGE

Ingredients Concentration Range(%) CAS RN

Black Toner

INGREDIENTS CONTRIBUTING TO: None

THE HAZARD(JAPAN)

[3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS

ADVERSE HUMAN HEALTH : To the best of our investigation, no special hazards have to be

**EFFECTS** mentioned.

ENVIRONMENTAL EFFECTS : To the best of our investigation, no information about adverse effect in

the environment available.

PHYSICAL AND CHEMICAL This material is not dangerous in case of usual handling.

HAZARDS

CLASS NAME FOR MSDS IN : Not applicable

JAPAN

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air. If necessary seek medical attention. IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap. If necessary

seek medical attention.

: Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary seek medical attention. IN CASE OF EYE CONTACT

IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water

or milk to drink.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA : Water spray, powder NOT SUITABLE EXTINGUISHING : No information available

MEDIA

SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.

: Keep away from sources of ignition and use appropriate extinguishing SPECIFIC METHODS

media. Fight fire from upwind position if possible.

Use goggles in combination with dust mask, and another protections as appropriate to situation. PROTECTION OF FIREFIGHTERS :

[6.ACCIDENTAL RELEASE MEASURES]

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: Use mask, goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. PERSONAL PRECAUTIONS

Treat from upwind position.

ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.

METHODS FOR CLEANING UP : Sweep or vacuum spills. Prevent dispersion of dust.

PREVENTION OF SECONDARY HAZARDS : No information available

[7.HANDLING AND STORAGE]

HANDLING

 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. TECHNICAL MEASURES

PRECAUTIONS Avoid inhalation of fine dust . Handle in well-ventilated areas. SAFE HANDLING ADVICE

Use safety glasses and protective gloves as appropriate to situation. Wash hands and face and gargle after handling.

Prevent generation of dust.

STORAGE

STORAGE CONDITIONS

: Keep container tightly closed. Protect from sun. Store in a well-ventilated room (under 40 C).

PACKAGING MATERIALS : No information available

[8.EXPOSURE CONTROLS/PERSONAL PROTECTION]

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

Use an adequate ventilation.

Use local exhaust ventilation, in case of generation of dust.

LIMIT VALUES

ACGIH(TLV) : TWA 3.5mg/m3,(2003 year edition)

Carbon black

TWA 3mg/m3(respirable particulate)

TWA 10mg/m3(inhalable particulate)(Particulates Not Otherwise

Classified)

: PEL 3.5mg/m3,(2002 year edition) Carbon black OSHA(PEL)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use dust mask, as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety glasses with side shield(Safety goggles or Face shield)

SKIN AND BODY : Full-body suit

PROTECTION

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Pulverizing powder

COLOUR : Black **ODOUR** : Odourless : Not applicable pΗ

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available KCDS No.: 102067-02 TUFTONE MHBK-1 Revised Date February 08, 2005 Kao Corporation

MELTING POINT : No data available DECOMPOSITION : No data available

TEMPERATURE

FLASH POINT : Not applicable AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT No data available LOWER LIMIT No data available

VAPOUR PRESSURE : No data available VAPOUR DENSITY : No data available

(68°F) DENSITY 1.2 g/mL (20°C)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofurane.

OCTANOL/WATER PARTITION : No data available

COEFFICIENT

OTHER DATA : No data available

[10.STABILITY AND REACTIVITY]

STABILITY : Stable in general.

HAZARDOUS REACTIONS : Stable.

CONDITIONS TO AVOID : No information available MATERIALS TO AVOID : No information available HAZARDOUS DECOMPOSITION : No information available

**PRODUCTS** 

OTHERS : No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY : Oral, rat, LD50 : > 2000 mg/kg

LOCAL EFFECTS

CORROSIVITY : No information available SKIN IRRITATION : No information available EYE IRRITATION : No information available SENSITIZATION : No information available CHRONIC TOXICITY/LONG TERM : No information available

TOXICITY

CARCINOGENICITY : No information available IARC

: Group2B,(2003 year edition) Carbon black Group3,(2003 year edition) Titanium dioxide Group 3,(2003 year edition) Amorphous Silica

NTP : Not established OSHA : Not established

MUTAGENICITY

Ames test (Salmonella typhimurium TA98,TA100,TA1535,TA1537,TA1538, Escherichia coli WP2uvrA):

Negative

TERATOGENICITY : No information available REPRODUCTION TOXICITY : No information available OTHER DATA : No information available KCDS No.: 102067-02 TUFTONE MHBK-1 4/4 February 08, 2005 Kao Corporation Revised Date

[12.ECOLOGICAL INFORMATION]

: No information available PERSISTENCE/ : No information available

DEGRADABILITY

BIOACCUMULATION : No information available

**ECOTOXICITY** 

AQUATIC TOXICITY : No information available OTHER DATA : No information available

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)"

Dispose of waste(after vacuuming) in accordance with local, state, and

federal regulation's.

Dispose of waste in accordance with local state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

UN CLASS/UN NUMBER

Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". PRECAUTIONS

Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region.

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region

INVENTORIES ENCS(Japan)

TSCA(USA)
EINECS(EU)
AICS(Australia)
DSL(Canada)
ECL(Korea)
PICCS(Philippines) Yes No(ELINCS) Yes No(NDSL) Yes Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCE -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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