

MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : TUFTONE YE-6
 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 NUMBER : 81-3-5630-7700

[2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Preparation

INGREDIENTS AND
 CONCENTRATION RANGE :

Ingredients	Concentration Range(%)	CAS RN
Black Toner		

INGREDIENTS CONTRIBUTING TO THE HAZARD(JAPAN) : None

[3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS :

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

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

PHYSICAL AND CHEMICAL HAZARDS : May cause risk of dust explosion.

CLASS NAME FOR MSDS IN JAPAN : Not applicable

[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.

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

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 MEDIA : No information available

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

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.

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

[6.ACCIDENTAL RELEASE MEASURES]

- PERSONAL PRECAUTIONS : Use mask, goggles and protective gloves.
Large spills : Remove person to safety.
Ensure adequate ventilation.
Treat from upwind position.
- ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.
- METHODS FOR CLEANING UP : Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.
- PREVENTION OF SECONDARY HAZARDS : No information available

[7.HANDLING AND STORAGE]

- HANDLING
 - TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
 - PRECAUTIONS : Avoid inhalation of fine dust .
 - SAFE HANDLING ADVICE : Handle in well-ventilated areas.
Use safety glasses and protective gloves as appropriate to situation.
Wash hands and face and gargle after handling.
Prevent generation of dust.
This material may cause risk of dust explosion.
- 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 3.5 mg/m3
Carbon black
TWA 2mg/m3
Paraffin wax fume
 - OSHA(PEL) : TWA 3.5 mg/m3
Carbon black
TWA 2 mg/m3
Paraffin wax fume
- 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 PROTECTION : Full-body suit
 - HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

- PHYSICAL STATES
 - FORM : Pulverizing powder
 - COLOUR : Black
 - ODOUR : Odourless
 - pH : No data available
- SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT	:	No data available
MELTING POINT	:	No data available
DECOMPOSITION TEMPERATURE	:	No data available
FLASH POINT	:	No data available
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
DENSITY	:	1.2 g/mL (20°C) (68°F)
SOLUBILITY		
WATER SOLUBILITY	:	Insoluble
SOLVENT SOLUBILITY	:	Partially soluble in toluene, chloroform and tetrahydrofurane.
OCTANOL/WATER PARTITION COEFFICIENT	:	No data available
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 PRODUCTS	:	No information available
OTHERS	:	No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY	:	No information available
LOCAL EFFECTS	:	
CORROSIVITY	:	No information available
SKIN IRRITATION	:	No information available
EYE IRRITATION	:	No information available
SENSITIZATION	:	No information available
CHRONIC TOXICITY/LONG TERM TOXICITY	:	No information available
CARCINOGENICITY	:	No information available
IARC	:	Group 2B : Possibly carcinogenic to humans Carbon black
NTP	:	Not established
OSHA	:	Not established
MUTAGENICITY	:	No information available
TERATOGENICITY	:	No information available
REPRODUCTION TOXICITY	:	No information available
OTHER DATA	:	No information available

[12.ECOLOGICAL INFORMATION]

MOBILITY	:	No information available
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PERSISTENCE/DEGRADABILITY : No information available
 BIOACCUMULATION : No information available
 ECOTOXICITY :
 AQUATIC TOXICITY : No information available
 OTHER DATA : No information available

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".
 Passed to a licensed waste contractor.
 This product may cause risk of dust explosion.
 Dispose of waste in accordance with local, state, and federal regulations.

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 : Not applicable
 PRECAUTIONS : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".
 Review "HANDLING AND STORAGE (Section 7)".
 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) Yes
 TSCA(USA) Yes
 EINECS(EU) No(ELINCS)
 AICS(Australia) Yes
 DSL(Canada) No(NDSL)
 ECL(Korea) Yes
 PICCS(Philippines) 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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