

# Material Safety Data Sheet

9330

## 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 : 81-3-5630-7700  
 TELEPHONE NUMBER

## [2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Preparation

## INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Black Toner	Confidential	

INGREDIENTS CONTRIBUTING TO : None  
 THE HAZARD(JAPAN)

## [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 (fume)  
Paraffin wax
- OSHA(PEL) : TWA 3.5 mg/m3  
Carbon black

## 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	: Oral, rat, LD50 : > 5000 mg/kg
LOCAL EFFECTS	
CORROSIVITY	: No information available
SKIN IRRITATION	: Rabbit, undiluted, 4 hour semi-occluded application (OECD404) : Not irritant (According to the criteria of EU)
EYE IRRITATION	: Rabbit, undiluted, OECD405 : Not irritant (According to the criteria of EU)
SENSITIZATION	: Guinea pig, Guinea Pig Maximization Test : Negative
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	: Ames test (TA98,TA100,TA1535,TA1537,TA1538, WP2uvrA) : Negative
TERATOGENICITY	: No information available
REPRODUCTION TOXICITY	: No information available
OTHER DATA	: No information available

## [12.ECOLOGICAL INFORMATION]

MOBILITY	: No information available
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)

To the best of the manufacturer's knowledge,the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability(including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another ,in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.



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### SAFETY DATA SHEET

ML-16XX

MSDS No.:0212

#### Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name :ML-16XX

Manufacturer

Name : Fuji Electric Imaging Device Co., Ltd.

Address : 4-18-1 Tsukama Matsumoto Nagano 390-0821 Japan

Telephone Number : +81-263-27-4935

#### Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	wt%	CAS No.	OSHA PEL	ACGIH TLV
Aluminium	98.4	7429-90-5	15mg/m <sup>3</sup> *	10mg/m <sup>3</sup> (TWA)*
Photoconductive material	<1.0	-----	Not listed	Not listed
Binder resin	<1.0	-----	Not listed	Not listed
Additive	<0.1	-----	Not listed	Not listed

\* Listed not as aluminum tube but as aluminum dust

#### Section 3. HAZARDS IDENTIFICATION

Physical and Chemical Hazard : No significant hazards associated with this product

Potential Health Effects : No significant hazards associated with this product

Environmental Effects : No significant hazards associated with this product

#### Section 4. FIRST AID MEASURES

First Aid Measures

Ingestion : Not applicable under normal use

Inhalation : Not applicable under normal use

Eye contact : Not applicable under normal use

Skin contact : Not applicable under normal use

#### Section 5. FIRE FIGHTING MEASURES

Extinguish Media : CO<sub>2</sub>, Dry chemicals

Special Fire Fighting Procedures :

Use self contained breathing apparatus and full protection against dust and fumes in case that a large quantity of drums produces fumes or vapors at a high temperature.

Unusual Fire and Explosion Hazards : None under normal storage and use conditions.



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### Section 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions : No special precaution

Environmental Precautions : No special precaution

Method for Cleaning Up : No special precaution

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### Section 7. HANDLING AND STORAGE

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Handling : No special precaution concerning safety

Storage : To keep the function of the drum, store in moderately cool,  
dark and dry place

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### Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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Exposure Guidelines : None

Engineering Controls : Not required under normal use

Personal Protection Equipment(s)

Respiratory Protection :Not required under normal use

Eye/Face Protection :Not required under normal use

Skin Protection :Not required under normal use

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### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : Green cylinder

Odor : No odor

pH : Not applicable

Boiling Point : No data available

Melting Point : No data available

Decomposition Temperature : No data available

Flash point : No data available

Flammable (explosive) Limits : Not applicable

Autoignition Temperature : No data available

Flammability : Not applicable

Explosive Properties : Not applicable

Oxidizing Properties : Not applicable

Vapor pressure : Not applicable

Vapor density : Not applicable

Density/Specific Gravity : 2.7(H<sub>2</sub>O=1)

Water Solubility : Negligible

Fat Solubility : No data available

Partition Coefficient (n-Octanol/Water) : No data available

Percent Volatile : No data available

Evaporation Rate : No data available





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### Section 10. STABILITY AND REACTIVITY

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Stability	: Stable
Conditions to avoid	: No data available
Materials to Avoid	: Strong oxidizing agents and organic solvents
Hazardous Decomposition Products	: None under normal use
Hazardous Polymerization	: Will not occur
Conditions to avoid	: No data available

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### Section 11. TOXICOLOGICAL INFORMATION

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Acute Oral Toxicity	: No data available
Acute Dermal Toxicity	: No data available
Acute Inhalation toxicity	: No data available
Acute eye irritation	: No data available
Acute skin irritation	: No data available
Skin sensitization	: No data available
Mutagenecity	: Negative in Ames Test (coating material)
Reproductive Toxicity	: No reproductive toxicity according to MAK, Proposition 65, TRGS 905 and EU directive.
Carcinogenecity	: No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH,EPA, OSHA, NTP, ILO, MAK, Proposition 65, TRGS 905 and EU Directive.
Others	: None

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### Section 12. ECOLOGICAL INFORMATION

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Mobility	: No data available
Persistence Degradability	: No data available
Bioaccumulation	: No data available
Ecotoxicity	: No data available
Other Adverse Effect	: No data available

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### Section 13. DISPOSAL CONSIDERATIONS

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Method of Disposal	: OPC drum may be disposed as the waste aluminum in accordance with local, state and federal regulations.
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### Section 14. TRANSPORT INFORMATION

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UN No.	: None
UN Shipping Name	: None
Un Classification	: None
UN Packing Group	: None
Special Precaution	: None

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### Section 15. REGULATORY INFORMATION

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Label information according to the Directives 1999/45/EC and 67/548/EEC (EU)

Symbol and Indication	: Not required
R-Phrase	: Not required
S-Phrase	: Not required
Dangerous Component(s)	: None
Other	: None

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### Section 16. OTHER INFORMATION

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To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.