

KSCD No.:101045-01

PFIA1002ZA for KX-FA83,KX-FA84,KX-FL511,KX-FL541

Kao Corporation

Set Up Data June 23' 2003

**MATERIAL SAFTY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: PFIA1002ZA for KX-FA83,KX-FA84,KX-FL511,KX-FL541

SUPPLIER: Kao Corporation

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

DIVISION: Chemical Division

TELEPHON NUMBER: 81-3-5630-7700

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**2. COMPOSITION/INFORMATION ON INGREDIENT**

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  
EFFECT

To the best of our investigation, no  
special hazards have to be mentioned.

ENVIRONMENTAL EFFECTS: To the best of our investigation no information  
available

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

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 METHOD: Keep away from sources of ignition and use appropriate use 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 or ground water directly.

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**METHODS FOR CLEANING UP:** Sweep or vacuum spills.

Prevent dispersion of dust.

**PREVENTION OF SECONDARY HAZARDS:** No information available.

## 7. HANDLING AND STORAGE

### HANDLING

**TECHNICAL MEASURES:** Facilities storing 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.

### STORAGE

**STORAGE CONDITIONS:** Keep container tightly closed.

Protect from sun.

Store in a well-ventilated room (under 40° ).

**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.

### LIMIT VALUES

ACGIH(TLV) : TWA 3.5mg/m<sup>3</sup>, (2000 year edition)

Carbon black

OSHA(PEL) : PEL 3.5mg/m<sup>3</sup>, (2000 year edition)

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 : Not applicable

### 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) . . . 68F . . .

### SOLUBILITY

WATER SOLUBILITY : Insoluble  
SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform, and  
tetrahydrofuran.

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 PRODUCT : 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 ( 2000 year edition)

Carbon black

Group 3 ( 2000 year edition)

Silica, amorphous

NTP : Not established

OSHA : Not established

MUTAGENICITY : No information available

TERATOGENICITY : No information available

REPRODUCTION TOXCITY : 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)"

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

Dispose of waste in accordance with local, sate, 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 leaking.

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 regulation 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 section (ISO 11014-1)  
International Chemicals Safety Cards(ICSC) (Compiler's Guide) (1994)

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