

KSCD No.:101045-01

PFIA1002ZA for KX-FA83,KX-FA84,KX-FL511,KX-FL541, KX-FL611, KX-FL613

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

FAX NUMBER: 81-3-5630-9889

EMERGENCY TELEPHON NUMBER: 81-3-5630-7700

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 EFFCTS: 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.

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 °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.

LIMIT VALUES

ACGIH(TLV) : TWA 3.5mg/m³, (2000 year edition)

Carbon black

OSHA(PEL) : PEL 3.5mg/m³, (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

MOBILTY : 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 CONSIDERRATIONS

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

Fellow 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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