

Product Use For Panasonic Communications Co., Ltd

Toner Kit KX-FAT90E, KX-FAT88A, KX-FAT88E, KX-FAT88X &
Drum Kit KX-FAD91E, KX-FAD89A, KX-FAD89E, KX-FAD89X
for KX-FL313, KX-FL401 series



Kao Corporation

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

PFIA1003ZA

1. Identification of the substance/preparation and of the company/undertaking

Product name : PFIA1003ZA
Code : KJ10432101 / 2 /
Manufacturer : Kao Corporation
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Supplier : Kao Corporation
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Emergency telephone number : (+81) 3 5630 7700
Material uses : TONERS FOR PHOTOGRAPHIC PAPER

2. Composition/information on ingredients

Substance/preparation : Preparation

Hazardous ingredients :

| Chemical name* | % | EC number | Classification |
|---|--------|------------|----------------|
| n,n-diethyl-n-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium salt with 4-methylbenzenesulfonic acid (1:1) polymer with butyl 2-propenoate and ethenylbenzene See section 16 for the full text of the R-phrases declared above | 5 - 10 | Polymeric. | Xi; R36 |

Following European Directives and National Regulations, only the dangerous ingredients are disclosed in the above table.

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** :
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), sulfur oxides (SO₂, SO₃ etc.).
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions and clean-up methods** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

- Recommended** : Use original container.

8. Exposure controls/personal protection

Exposure controls

- Occupational exposure controls** : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: Appropriate breathing apparatus may be required.

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- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour/hours (breakthrough time): butyl rubber
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Recommended: splash goggles , safety glasses with side-shields
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: lab coat , overall

9. Physical and chemical properties

Appearance

- Physical state** (20°C) : Solid. (Powder.)
- Color** : Black.
- Odor** : Odorless.
- Flash point** : The lowest known value is Closed cup: >300°C (572°F). (Carbon black)
- Explosive properties** : Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
- Density** : 1.2 g/cm³
- Solubility** : Insoluble in cold water.

10. Stability and reactivity

- Stability** : The product is stable.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), sulfur oxides (SO₂, SO₃ etc.).

11. Toxicological information

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Contact sensitisation** : No specific information is available in our database regarding the other toxic effects of this material to humans.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|---|-------------|---------------|--------------|----------------|
| n,n-diethyl-n-methyl-2-[[2-methyl-1-oxo-2-propenyl)oxy]ethanaminium salt with 4-methylbenzenesulfonic acid (1:1) polymer with butyl 2-propenoate and ethenylbenzene | LD50 | >5000 mg/kg | Oral | Rat |
| Carbon black | LD50 | >15400 mg/kg | Oral | Rat |

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.

12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

International transport regulations

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Label | Additional information |
|------------------------|----------------|----------------------|-------|---------------|-------|------------------------|
| ADR/RID Class | Not regulated. | - | - | - | | - |
| IMDG Class | Not regulated. | - | - | - | | - |
| IATA-DGR Class | Not regulated. | - | - | - | | - |

15. Regulatory information

EU regulations

Risk phrases : This product is not classified according to EU legislation.
Safety phrases : Not applicable.
Contains :
Product use : Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
 - Industrial applications.
Other information : Not available.

Other EU regulations

Additional warning phrases : Safety Data Sheet available for professional user on request.
Restrictions on the Marketing and Use Directive : Not applicable.

Germany

Hazardous incident ordinance : Not available.
Ordinance on combustible liquids : Class: Omitted
Technical instruction on air quality control : Not available.
Hazard class for water : 2

16. Other information

▼ Indicates information that has changed from previously issued version.

Full text of R phrases referred to in Sections 2 and 3 : R36- Irritating to eyes.

Full text of classifications referred to in Sections 2 and 3 : Xi - Irritant

Key data sources : Not available.

Revision comments : Not available.

History

Date of printing : 18/07/2005

Date of issue : 18/07/2005

Date of previous issue : No previous validation

Version : 2

Form : KCE SDS J EU

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.