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| KITAMURA MFG. CO., LTD. Japan | Document No.: | SDS-072021B270 |
| | Revision No.: | |
| SAFETY DATA SHEETS (SDS) | Effective Date: | 20-Jul-21 |
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1 Chemical Product and Company Identification

Identification of substance : Oil based ink typically used for nylon fabric based on typewriters and dot matrix printers, re-inking ink for ink roller and ink tank
 Synonyms name : KKS-270 Black
 Chemical formula : Mixture of carbon, dyes, pigment, mineral oil, fatty acid, etc.
 Supplier : Kitamura Mfg. Co., Ltd.
 Address : No. 96-1 Senpukuji-machi, Hakusan City, Ishikawa Pref., Japan 924-0802
 Telephone : 81-762-76-3111
 Fax : 81-762-76-1529
 Emergency tel no. : 81-762-76-3111 Mo-Fr 8:30-17:00 e-mail: kitamfg@da.mbn.or.jp

2 Hazard Identification

2.1 Classification of the substance or mixture, : Not applicable

GHS Classification of mixture

Signal pictogram : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements:

Wash hands thoroughly after handling, avoid release to the environment, wear protective gloves/ eye protection, if skin irritation occurs, get medical advice/ attention, if eye irritation persists, get medical advice/ attention.

2.3 Other hazards

No additional information available

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3 Composition/ Information on Ingredients

| Chemical Name | Content (%) | CAS No. |
|-----------------------|-------------|-------------|
| C. I. Solvent Black 7 | 10 - 15 % | 101357-15-7 |
| Carbon Black | Less 5% | 1333-86-4 |
| C. I. Pigment Blue | Less 1% | 215--385-2 |
| C. I. Pigment Red | Less 1% | 7023-61-2 |
| C. I. Pigment White | Less 1% | 7727-43-7 |
| Fatty Acid | 5 - 15% | 112-80-1 |
| Mineral Oil* | 15 - 25% | 64742-52-5 |
| Mineral Oil* | 25 - 30% | 64742-54-7 |
| Linoleic Acid | 5 - 15% | 60-33-3 |
| Sorbitan Monooleate | 1 -10% | 1338-43-8 |

* Sufficient refined oil - DMSO extract less 3% by method IP346.

Comply with RoHS Directive 2015/863/EU

Comply with REACH Directive (EC) 1907/2006 (#211)

4 First Aid Measures

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|----------------|---|
| Inhalation | : Allow victim to breathe fresh air. Allow the victim to rest |
| Skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and after, followed by warm water rinse. |
| By eye contact | : Flush eyes thoroughly with clean water. Seek medical attention if irritation persists. |
| Ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

5 Fire-Fighting Measures

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| Extinguishing media | : Use foam, CO2, or dry chemical, water spray, sand |
| Special fire precautions | : Do not use a heavy water stream. |
| Advice for firefighter | : Wear self-contained breathing apparatus when fighting fire in confined area. Do not use water. |

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6 Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
Wear appropriate gloves to avoid staining hands
- 6.2 Environment precautions: Prevent spills from entering storm sewers or drains.
- 6.3 Methods and materials for containment and cleaning up: Small spills:
Soak up with paper or other absorbent materials
Large spills: Contain and collect with dry inert absorbent materials.

7 Handling and Storage

- 7.1 Precautions for safe handling: Avoid contact with eyes. Avoid prolonged contact with skin.
- 7.2 Conditions for safe storage, including any incompatibilities: When not in use, keep containers closed in ambient storage condition

8 Exposure Control / Personal Protection

- 8.1 Control parameters: Time weighted average for oil mist (mg/m^3) – $5\text{mg}/\text{m}^3 \times 8$ hours (ACGIH TLV, OSHA PEL)
- 8.2 Exposure controls:
Appropriate Engineering Controls: Mechanical (general) ventilation is acceptable.
Personal Protective Equipment: Protective gloves recommended for prolong or repeated contact.
For eyes protection, safety goggles or glasses with side shield are recommended.

9 Physical and Chemical Properties

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|--|-------------------------------|
| Physical state | : Black paste |
| Colour | : Black |
| Odor | : Slightly odor |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : $> 175^\circ\text{C}$ (COC) |
| Self-ignition temperature | : No data available |

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Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative density : Approx. 0.95 g/cm³ at 20°C
Solubility : No data available

10 Stability and Reactivity

- 10.1 Reactivity: No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability: Stable under normal temperature and pressure.
- 10.3 Possibility of hazardous reaction: No hazardous reaction with proper storage and handling.
- 10.4 Condition to avoid: High temperature, heat, sparks flames and another source of ignition.
- 10.5 Incompatible materials: Oxidizing agents
- 10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide (CO₂) with form in fire.

11 Toxicological Information

- 11.1 Oral : No known significant effects or critical hazards.
Material can be aspirated into lungs causing harm.
- 11.2 Skin : Repeated exposure may cause skin irritation.
- 11.3 Eye : No known significant effects or critical hazards. May cause discomfort.
- 11.4 Inhalation : No known significant effects or critical hazards.

12 Ecological Information

- 12.1 Environmental mobility : No data available
- 12.2 Environmental degradability : No data available
- 12.3 Eco toxicity and bioaccumulation : No data available

13 Disposal Considerations

- 13.1 Waste treatment method:
Product: Contact a licensed professional waste disposal service to dispose of materials in accordance with applicable local, state and national environment regulations
Do not contaminate the ground or water with waste.
Contaminated packaging: Completely empty container and dispose of properly as unused product.

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14 Transport Information

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|----------------------------|-------------------------|-----------------------|
| International Regulations: | UN numbers | : Not regulated |
| | UN proper shipping name | : Not regulated |
| | Class | : Not regulated |
| | Packaging group | : Not regulated |
| Sea transportation: | IMDG-Code | : Not dangerous goods |
| Air transportation: | ICAO-TI/IATA-DGR | : Not dangerous goods |
| Surface transportation: | DOT | : Not dangerous goods |
| | ADR/RID | : Not dangerous goods |

15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

RoHS Directive: This ink does not contain any RoHS materials.

REACH candidate list: This ink does not contain substance on the list.

These values are based on information available from suppliers and not by actual laboratory analysis of finished product.

15.2 Chemical Safety assessment:

No chemical safety assessment has been carried out.

16 Other Information

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.