

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product identifier****Product name** K-RAY® DarkViolet**Recommended use of the chemical and restrictions on use****Recommended use** Coloring agent.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Manufacturer address**Kobo Products, Inc.  
3474 South Clinton Avenue  
South Plainfield, NJ 07080 USA  
Telephone: 1-908-757-0033**Emergency telephone number****Emergency telephone** Chemtrec 1-800-424-9300

### 2. Hazards Identification

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity

Category 2

**Label elements****EMERGENCY OVERVIEW****WARNING****Hazard statements**

Suspected of causing cancer

**Appearance** Powder**Physical state** Solid**Odor** Odorless**Precautionary Statements - Prevention**

Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

No information available

**3. Composition/information on Ingredients**

| Chemical Name          | CAS No     | Weight-%  |
|------------------------|------------|-----------|
| Titanium Dioxide       | 13463-67-7 | 41.0-49.0 |
| Mica                   | 12001-26-2 | 35.0-54.0 |
| Iron Oxides (CI 77499) | 1317-61-9  | 5.0-15.0  |

**4. First aid measures****First aid measures**

|   |   |
|---|---|
| <b>General advice</b>                     | If symptoms persist, call a physician.  |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.                |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.   |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.           |
| <b>Ingestion</b>                          | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required.  |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No known effects under normal use conditions.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

None in particular.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Protective equipment and precautions for firefighters**

Use personal protective equipment as required.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- Personal precautions** Use personal protective equipment as required. Avoid contact with eyes. Wash thoroughly after handling.
- For emergency responders** Use personal protective equipment as required.
- Environmental precautions** Collect spillage. Do not allow into any sewer, on the ground or into any body of water.

### Methods and material for containment and cleaning up

- Methods for containment** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up** Avoid creating dust. Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

### Precautions for safe handling

- Advice on safe handling** Use personal protective equipment as required. Use only in well-ventilated areas. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

- Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Store at ambient conditions.
- Incompatible materials** Strong oxidizing agents. Strong acids.

## 8. Exposure Controls/Personal Protection

### Control parameters

#### Exposure guidelines

| Chemical Name    | ACGIH TLV                                    | OSHA PEL   | NIOSH IDLH   |
|------------------|--|--|--|
| Titanium Dioxide | TWA: 10 mg/m <sup>3</sup>                    | TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 10 mg/m <sup>3</sup> total dust | IDLH: 5000 mg/m <sup>3</sup>   |
| Mica             | TWA: 3 mg/m <sup>3</sup> respirable fraction | (vacated) TWA: 3 mg/m <sup>3</sup> respirable dust<br>TWA: 20 mppcf                    | IDLH: 1500 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> containing <1% Quartz respirable dust |

### Appropriate engineering controls

- Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin and body protection** Wear protective gloves and protective clothing.
- Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.
- General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

|                       |        |                       |                          |
|-----------------------|--------|-----------------------|--------------------------|
| <b>Physical state</b> | Solid  | <b>Odor</b>           | Odorless                 |
| <b>Appearance</b>     | Powder | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | Violet |                       |                          |

| <u>Property</u>                | <u>Values</u>      | <u>Remarks</u> •         |
|--------------------------------|--------------------|--------------------------|
| pH                             | 4-11               |                          |
| Melting point / freezing point |                    | No information available |
| Boiling point / boiling range  |                    | No information available |
| Flash point                    |                    | No information available |
| Evaporation rate               |                    | No information available |
| Flammability (solid, gas)      |                    | No information available |
| Flammability limit in air      |                    |                          |
| Upper flammability limit       |                    | No information available |
| Lower flammability limit       |                    | No information available |
| Vapor pressure                 |                    | No information available |
| Vapor density                  |                    | No information available |
| Specific gravity               |                    | No information available |
| Water solubility               | Insoluble in water |                          |
| Solubility in other solvents   |                    | No information available |
| Partition coefficient          |                    | No information available |
| Autoignition temperature       |                    | No information available |
| Decomposition temperature      |                    | No information available |
| Kinematic viscosity            |                    | No information available |
| Dynamic viscosity              |                    | No information available |
| Explosive properties           |                    | No information available |
| Oxidizing properties           |                    | No information available |

### Other Information

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC content (%)  | No information available |
| Density          | No information available |
| Bulk density     | No information available |

## 10. Stability and Reactivity

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

### Conditions to avoid

None known.

### Incompatible materials

Strong oxidizing agents. Strong acids.

### Hazardous decomposition products

None under normal use conditions.

## 11. Toxicological Information

### Information on likely routes of exposure

#### Product information

|                     |                    |
|---------------------|--------------------|
| <b>Inhalation</b>   | No data available. |
| <b>Eye contact</b>  | No data available. |
| <b>Skin contact</b> | No data available. |
| <b>Ingestion</b>    | No data available. |

#### Component information

| Chemical Name          | Oral LD50             | Dermal LD50 | Inhalation LC50 |
|------------------------|-----------------------|-------------|-----------------|
| Titanium Dioxide       | > 10000 mg/kg ( Rat ) | -           | -               |
| Iron Oxides (CI 77499) | > 10000 mg/kg ( Rat ) | -           | -               |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | No information available.  |
| <b>Serious eye damage/eye irritation</b> | No information available.  |
| <b>Irritation</b>                        | No information available.  |
| <b>Corrosivity</b>                       | No information available.  |
| <b>Sensitization</b>                     | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). |

| Chemical Name    | ACGIH | IARC     | NTP | OSHA |
|------------------|-------|----------|-----|------|
| Titanium Dioxide |       | Group 2B |     | X    |

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Reproductive toxicity</b>    | No information available. |
| <b>STOT - single exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Aspiration hazard</b>        | No information available. |

## 12. Ecological Information

### Ecotoxicity

None known

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Other adverse effects

No information available

### 13. Disposal Considerations

#### Waste treatment methods

|                               |   |
|-------------------------------|---|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

### 14. Transport Information

|                          |               |
|--------------------------|---------------|
| <b><u>DOT</u></b>        | Not regulated |
| <b><u>ICAO (air)</u></b> | Not regulated |
| <b><u>IATA</u></b>       | Not regulated |
| <b><u>IMDG</u></b>       | Not regulated |
| <b><u>RID</u></b>        | Not regulated |
| <b><u>ADR</u></b>        | Not regulated |

### 15. Regulatory information

#### International Inventories

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | Complies |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | No |
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name    | California Proposition 65 |
|------------------|---------------------------|
| Titanium Dioxide | Carcinogen                |

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations

| Chemical Name    | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| Titanium Dioxide | X          | X             | X            |

**16. Other information**

|             |                  |                |                    |  |
|-------------|------------------|----------------|--------------------|--|
| <b>NFPA</b> | Health Hazards 1 | flammability 0 | Instability 0      | Physical and chemical properties -<br><b>PERSONAL PROTECTION E</b> |
| <b>HMIS</b> | Health Hazards 1 | flammability 0 | Physical hazards 0 |  |

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**Disclaimer**

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**End of Safety Data Sheet**