

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** PM3410 Black Ribbon

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Ink impregnated cloth used to transfer an image on sheet of paper or other substrate.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Oki Data Americas, Inc.  
**Supplier Address** 2000 Bishops Gate Blvd.  
Mount Laurel  
NJ  
08054  
US  
**Supplier Phone Number** Phone: 1-800-654-3282  
Fax: 1-856-235-2600  
**Supplier Email** support@okidata.com  
**Emergency telephone number** Phone: 1-800-654-3282

## 2. HAZARDS IDENTIFICATION

### Classification

Office products are exempt from the 2012 OSHA Hazardous Communication Standard (29 CFR 1910.1200) therefore classification is not required.

### GHS Label elements, including precautionary statements

### Emergency Overview

**Signal word** None

**Hazard Statements**  
None



**Appearance** Black**Physical State** Solid**Odor** No data available**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear protective gloves  
 Wear eye/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

77.99% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Harmful to aquatic life with long lasting effects  
 Repeated or prolonged skin contact may cause allergic reactions with susceptible persons  
 Carbon Black in a free state is classified by the IARC as a Group 2B Carcinogen (possibly carcinogenic to humans). The formulation of the toner has Carbon Black only present in a bounded state and not in a free state so it does not present a carcinogenic risk.

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                          | CAS No      | Weight-% | Trade Secret |
|--|-------------|----------|--------------|
| Third Party Formulation (TP # 1190696) | Proprietary | 10 - 30  | *            |
| Third Party Formulation (TP # 1190696) | Proprietary | 1 - 5    | *            |
| Third Party Formulation (TP # 1190696) | Proprietary | 0.1 - 1  | *            |
| Third Party Formulation (TP # 1190696) | Proprietary | 0.1 - 1  | *            |
| Third Party Formulation (TP # 1190696) | Proprietary | 0.1 - 1  | *            |
| Third Party Formulation (TP # 1190696) | Proprietary | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES



**First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Inhalation**

Remove to fresh air.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

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

**Most Important Symptoms and Effects** Burning sensation. Itching. Rashes. Hives.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

May cause sensitization of susceptible persons. Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

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

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

Product is or contains a sensitizer. May cause sensitization by skin contact.

**Uniform Fire Code**

Sensitizer: Solid

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.



**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental Precautions

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

### 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** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

| Chemical Name                          | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|--|---|--|---|
| Third Party Formulation (TP # 1190696) | TWA: 3 mg/m <sup>3</sup> inhalable fraction           | TWA: 3.5 mg/m <sup>3</sup><br>(vacated) TWA: 3.5 mg/m <sup>3</sup> | IDLH: 1750 mg/m <sup>3</sup><br>TWA: 3.5 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |
| Third Party Formulation (TP # 1190696) | TWA: 2 mg/m <sup>3</sup> inhalable fraction and vapor | (vacated) TWA: 10 mg/m <sup>3</sup>                                | TWA: 10 mg/m <sup>3</sup>   |
| Third Party Formulation (TP # 1190696) | TWA: 10 mg/m <sup>3</sup>                             | (vacated) TWA: 10 mg/m <sup>3</sup>                                | TWA: 10 mg/m <sup>3</sup>   |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** If splashes are likely to occur. Wear safety glasses with side shields (or goggles). None required for consumer use.

|                                 |  |
|---------------------------------|--|
| <b>Skin and Body Protection</b> | Wear protective gloves and protective clothing.  |
| <b>Respiratory Protection</b>   | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.   |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|   |                          |                       |                          |
|---|--------------------------|-----------------------|--------------------------|
| <b>Physical State</b>                         | Solid                    | <b>Odor</b>           | No data available        |
| <b>Appearance</b>                             | Black                    | <b>Odor Threshold</b> | No information available |
| <b>Color</b>                                  | No information available |                       |                          |
| <b>Property</b>                               | <b>Values</b>            | <b>Remarks</b>        | <b>Method</b>            |
| <b>pH</b>                                     | No data available        | None known            |                          |
| <b>Melting / freezing point</b>               | No data available        | None known            |                          |
| <b>Boiling point / boiling range</b>          | No data available        | None known            |                          |
| <b>Flash Point</b>                            | No data available        | None known            |                          |
| <b>Evaporation Rate</b>                       | No data available        | None known            |                          |
| <b>Flammability (solid, gas)</b>              | No data available        | None known            |                          |
| <b>Flammability Limit in Air</b>              |                          |                       |                          |
| <b>Upper flammability limit</b>               | No data available        |                       |                          |
| <b>Lower flammability limit</b>               | No data available        |                       |                          |
| <b>Vapor pressure</b>                         | No data available        | None known            |                          |
| <b>Vapor density</b>                          | No data available        | None known            |                          |
| <b>Specific Gravity</b>                       | No data available        | None known            |                          |
| <b>Water Solubility</b>                       | Insoluble                | None known            |                          |
| <b>Solubility in other solvents</b>           | No data available        | None known            |                          |
| <b>Partition coefficient: n-octanol/water</b> | No data available        | None known            |                          |
| <b>Autoignition temperature</b>               | No data available        | None known            |                          |
| <b>Decomposition temperature</b>              | No data available        | None known            |                          |
| <b>Kinematic viscosity</b>                    | No data available        | None known            |                          |
| <b>Dynamic viscosity</b>                      | No data available        | None known            |                          |
| <b>Explosive properties</b>                   | No data available        |                       |                          |
| <b>Oxidizing Properties</b>                   | No data available        |                       |                          |

### Other Information

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> |                   |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.



**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.  |
| <b>Eye Contact</b>  | Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.           |
| <b>Skin Contact</b> | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**Component Information**

| Chemical Name                          | Oral LD50             | Dermal LD50             | Inhalation LC50 |
|--|-----------------------|-------------------------|-----------------|
| Third Party Formulation (TP # 1190696) | > 5000 mg/kg ( Rat )  | -                       | -               |
| Third Party Formulation (TP # 1190696) | > 15400 mg/kg ( Rat ) | > 3 g/kg ( Rabbit )     | -               |
| Third Party Formulation (TP # 1190696) | = 320 mg/kg ( Rat )   | > 794 mg/kg ( Rabbit )  | -               |
| Third Party Formulation (TP # 1190696) | = 890 mg/kg ( Rat )   | -                       | -               |
| Third Party Formulation (TP # 1190696) | = 1165 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects**

**Symptoms** May cause redness and tearing of the eyes. Itching. Rashes. Hives.

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

**Sensitization** May cause sensitization of susceptible persons. May cause sensitization by skin contact.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains a proprietary material in a non-respirable form. Inhalation of this substance is unlikely to occur from exposure to this product.

| Chemical Name                          | ACGIH | IARC     | NTP | OSHA |
|--|-------|----------|-----|------|
| Third Party Formulation (TP # 1190696) | A3    | Group 2B |     | X    |
| Third Party Formulation (TP # 1190696) |       | Group 3  |     |      |

**ACGIH (American Conference of Governmental Industrial Hygienists)**  
 A3 - Animal Carcinogen  
**IARC (International Agency for Research on Cancer)**  
 Group 2B - Possibly Carcinogenic to Humans  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans  
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**  
 X - Present

**Reproductive Toxicity** Contains a known or suspected reproductive toxin.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. In 1996 the IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free Carbon Black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between Carbon Black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner product containing Carbon Black demonstrated no association between toner exposure and tumor development in rats. The formulation of the toner has Carbon Black only present in a bounded state and not in a free state.

**Target Organ Effects** Eyes. Skin. Respiratory system. Gastrointestinal tract (GI). Reproductive System.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document  
 Not applicable

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**  
 Harmful to aquatic life with long lasting effects.

| Chemical Name                          | Toxicity to Algae | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|--|-------------------|--|----------------------------|----------------------------|
| Third Party Formulation (TP # 1190696) |                   | 96h LC50: = 205 mg/L (Pimephales promelas)   |                            |                            |
| Third Party Formulation (TP # 1190696) |                   | 96h LC50: 0.14 - 0.32 mg/L (Lepomis macrochirus) 96h LC50: 0.05 - 0.089 mg/L (Oncorhynchus mykiss) 96h LC50: 0.18 - 0.23 mg/L (Pimephales promelas) 96h LC50: 0.049 - 0.079 mg/L (Oncorhynchus mykiss) |                            |                            |



|  |   |   |  |                            |
|--|---|---|--|----------------------------|
| Third Party Formulation (TP # 1190696) |   |   |  | 24h EC50: > 5600 mg/L      |
| Third Party Formulation (TP # 1190696) | 72h EC50: = 2.6 mg/L (Desmodemus subspicatus) 72h EC50: = 2 mg/L (Pseudokirchneriella subcapitata) 96h EC50: = 1.7 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: = 9.6 mg/L (Lepomis macrochirus) 96h LC50: = 11 mg/L (Oncorhynchus mykiss) 96h LC50: = 4.2 mg/L (Pimephales promelas) |  | 48h EC50: = 17 mg/L        |
| Third Party Formulation (TP # 1190696) | 72h EC50: = 6 mg/L (Pseudokirchneriella subcapitata) 72h EC50: > 0.42 mg/L (Desmodemus subspicatus)   | 48h LC50: = 5 mg/L (Oryzias latipes)  | EC50 = 7.82 mg/L 5 min<br>EC50 = 8.57 mg/L 15 min<br>EC50 = 8.98 mg/L 30 min |                            |
| Third Party Formulation (TP # 1190696) | 72h EC50: = 1.5 mg/L (Scenedesmus subspicatus)  | 96h LC50: 3.47 - 4.14 mg/L (Pimephales promelas)  | EC50 = 2.81 mg/L 5 min<br>EC50 = 3.46 mg/L 15 min<br>EC50 = 4.77 mg/L 30 min | 48h EC50: 1.69 - 2.46 mg/L |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical Name                          | Log Pow |
|--|---------|
| Third Party Formulation (TP # 1190696) | 1.69    |
| Third Party Formulation (TP # 1190696) | 4.17    |
| Third Party Formulation (TP # 1190696) | 3.5     |

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**California Hazardous Waste Codes** 141

**14. TRANSPORT INFORMATION**

**DOT** NOT REGULATED  
**Proper Shipping Name** NON REGULATED  
**Hazard Class** N/A

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated





|                             |   |
|-----------------------------|---|
| <b>IATA</b>                 | Not regulated   |
| <b>Proper Shipping Name</b> | NON REGULATED   |
| <b>Hazard Class</b>         | N/A   |
| <b>IMDG/IMO</b>             | Not regulated   |
| <b>Hazard Class</b>         | N/A   |
| <b>Marine Pollutant</b>     | Product is a marine pollutant according to the criteria set by IMDG/IMO |
| <b>RID</b>                  | Not regulated   |
| <b>ADR</b>                  | Not regulated   |
| <b>ADN</b>                  | Not regulated   |

## 15. REGULATORY INFORMATION

### International Inventories

|      |  |
|------|--|
| TSCA | Complies   |
| DSL  | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                            | CAS No | Weight-% | SARA 313 - Threshold Values % |
|--|--------|----------|-------------------------------|
| Third Party Formulation (TP # 1190696) - |        | 0.1 - 1  | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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**

Not Regulated due to chemicals being bounded.

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



| Chemical Name                          | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--|------------|---------------|--------------|--------------|----------|
| Third Party Formulation (TP # 1190696) |            |               | X            |              |          |
| Third Party Formulation (TP # 1190696) |            |               |              | X            |          |
| Third Party Formulation (TP # 1190696) | X          | X             | X            |              | X        |

### International Regulations

| Component   | Carcinogen Status | Exposure Limits   |
|---|-------------------|---|
| Third Party Formulation (TP # 1190696)<br>(0.1 - 1) |                   | Mexico: TWA 3.5 mg/m <sup>3</sup><br>Mexico: STEL 7 mg/m <sup>3</sup> |
| Third Party Formulation (TP # 1190696)<br>(0.1 - 1) |                   | Mexico: TWA 10 mg/m <sup>3</sup><br>Mexico: STEL 20 mg/m <sup>3</sup> |
| Third Party Formulation (TP # 1190696)<br>(0.1 - 1) |                   | Mexico: TWA 10 mg/m <sup>3</sup><br>Mexico: STEL 20 mg/m <sup>3</sup> |

### Canada

#### WHMIS Hazard Class

Non-controlled by definition of manufactured article

## 16. OTHER INFORMATION

|             |                           |                       |                          |  |
|-------------|---------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazards</b> 2   | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards</b> - |
| <b>HMIS</b> | <b>Health Hazards</b> 2 * | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b> X           |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**Prepared By** Product Stewardship  
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**Revision Note** No information available

### 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

**End of Safety Data Sheet**