



# **Material Safety Data Sheet**

**Toner Type : ODT-1**

**For Models : B401**

**B411 / 431**

**B840**

**MB441 / 451 / 451w**

**MB461/471/471w/491**

**ES4131**

**ES8140**

**ES4161/4191**

**Oki Data Corporation**

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the substance/mixture and of the company/undertaking

**Product name** : ODT-1  
**Code** : KJE035 / 2 MRD  
**Chemical product name** : Proprietary mixture.  
**Manufacturer** : Oki Data Corporation  
 3-1 Futaba-cho Takasaki-shi Gunma 370-8585 JAPAN  
 Tel. 027-328-6366 Fax. 027-328-6396  
**Supplier** : Oki (Europe) Ltd.  
 1 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK  
 Tel. +44(0) 1236 502502  
**Emergency telephone numl** : Tel. +44(0) 1236 5025  
**Emergency e-mail contact** : [MSDSQuestions@okieurope.com](mailto:MSDSQuestions@okieurope.com)  
**Material uses** : For electrophotographic printing systems

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
 Not classified.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown toxicity : 66.2%

**Ingredients of unknown ecotoxicity** : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment : 93.3%

**Classification according to Directive 1999/45/EC [DPD]**

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

**Classification** : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

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

#### 2.2 Label elements

**Hazard pictograms** :  
**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Hazardous ingredients** :

**Supplemental label elements** : Safety Data Sheet available for professional user on request.

#### 2.3 Other hazards

**Other hazards which do not result in classification** : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

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### 3. Composition/information on ingredients

Substance / mixture : Mixture

| Product/<br>ingredient<br>name | REACH<br>Registration<br>number | EC<br>number | %   | Classification  |                                      | Type |
|--------------------------------|---------------------------------|--------------|-----|-----------------|--------------------------------------|------|
|                                |                                 |              |     | 67/548/EEC      | Regulation(EC) No.<br>1272/2008[CLP] |      |
| Carbon Black                   |                                 | 215-609-9    | 1-5 | Not classified. | Not classified.                      | [2]  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

### 4. First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following : irritation redness
- Inhalation** : Adverse symptoms may include the following : respiratory tract irritation coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

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### 5. Fire-fighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use dry chemical powder.
- Unsuitable extinguishing media : Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture : Fine dust clouds may form explosive mixtures with air.
- Hazardous combustion products : Decomposition products may include the following materials :  
carbon dioxide  
carbon monoxide

#### 5.3 Advice for firefighters

- Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
- For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

#### 6.3 Methods and materials for containment and cleaning up

- Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water, courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

- 6.4 Reference to other sections : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

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### 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- 7.2 Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 40 (104° F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

### 8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

##### Occupational exposure limits

| Product / ingredient name                        | Exposure limit values   |
|--|---|
| <b>Europe</b><br>Carbon black                    | <b>ACGIH TLV (United States, 2/2010).</b><br>TWA: 3,5 mg/m <sup>3</sup> 8 hour(s) |
| <b>Germany</b><br>No exposure limit value known. |   |
| <b>Spain</b><br>Carbon black                     | <b>INSHT (Spain, 5/2010).</b><br>TWA: 3,5 mg/m <sup>3</sup> 8 hour(s)             |

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and / or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

##### Derived effect levels

No DELs available.

##### Predicted effect concentrations

No PECs available.

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### 8.2 Exposure controls

|  |   |  |
|--|---|--|
| <b>Appropriate engineering controls</b>      | : | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| <br>   |   |  |
| <b><u>Individual protection measures</u></b> |   |  |
| <b>Hygiene measures</b>                      | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Eye / face protection</b>                 | : | 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, gases or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: splash goggles, safety glasses with side-shields   |
| <br>   |   |  |
| <b><u>Skin protection</u></b>                |   |  |
| <b>Hand protection</b>                       | : | 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 hours (breakthrough time): natural rubber (latex)   |
| <b>Body protection</b>                       | : | 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. Recommended: overall, lab coat   |
| <b>Other skin protection</b>                 | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b>                | : | Use a properly fitted, air-purifying or air-fed 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.  |
| <b>Environmental exposure controls</b>       | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.   |
| <b>Remark</b>                                | : | The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.  |

## 9. Physical and chemical properties

### 9.1 information on basic physical and chemical properties

#### Apperance

|                                  |   |   |
|----------------------------------|---|---|
| <b>Physical state</b>            | : | Solid. [Powder.]  |
| <b>Color</b>                     | : | Black.  |
| <b>Odor</b>                      | : | Odorless.   |
| <b>pH</b>                        | : | Not applicable.   |
| <b>Boiling point</b>             | : | Not available.  |
| <b>Flash point</b>               | : | Not available.  |
| <b>Flammability (solid, gas)</b> | : | Not available.  |
| <b>Density</b>                   | : | 1.2g/cm <sup>3</sup> (20 )  |
| <b>Solubility(ies)</b>           | : | Insoluble in the following materials: cold water and hot water.   |
| <b>Explosive properties</b>      | : | Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge. |

### 9.2 Other information

No additional information.

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### 10. Stability and reactivity

- 10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability : The product is stable.
- 10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharge. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
- 10.5 Incompatible materials : Reactive or incompatible with the following materials:  
oxidizing materials
- 10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

| Product / ingredient name | Result    | Species | Dose        | Exposure |
|---------------------------|-----------|---------|-------------|----------|
| Carbon black              | LD50 Oral | Rat     | >8000 mg/kg | -        |

Conclusion / Summary : Not available.

##### Acute toxicity estimates

Not available.

##### Irritation /Corrosion

Conclusion / Summary : Not available.

Skin : Not available.

Eyes : Not available.

Respiratory : Not available.

##### Sensitizer

Conclusion / Summary : Not available.

Skin : Not available.

Respiratory : Not available.

##### Mutagenicity

Conclusion / Summary : Not available.

##### Carcinogenicity

Conclusion / Summary : Not available.

##### Reproductive toxicity

Conclusion / Summary : Not available.

##### Teratogenicity

Conclusion / Summary : Not available.

##### Specific target organ toxicity (single exposure)

| Product / ingredient name | Category | Route of exposure | Target organs |
|---------------------------|----------|-------------------|---------------|
| Not available.            |          |                   |               |

##### Specific target organ toxicity (repeated exposure)

| Product / ingredient name | Category | Route of exposure | Target organs |
|---------------------------|----------|-------------------|---------------|
| Not available.            |          |                   |               |

##### Aspiration hazard

| Product / ingredient name | Result |
|---------------------------|--------|
| Not available.            |        |

Information on the likely routes of exposure : Not available.

**MATERIAL SAFETY DATA SHEET****Potential acute health effects**

- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : Adverse symptoms may include the following:  
irritation  
redness

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

- Potential immediate** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

- Conclusion / Summary** : Not available.
- General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Interactive effects** : Not available.
- Absorption** : Not available.
- Distribution** : Not available.
- Metabolism** : Not available.
- Elimination** : Not available.
- Other information** : Not available.

**12. Ecological information****12.1 Toxicity**

| Product / ingredient name | Result                  | Species | Exposure |
|---------------------------|-------------------------|---------|----------|
| Carbon black              | Acute EC50 > 10000 mg/l | Algae   | 72hours  |
|                           | Acute LC50 > 1000mg/l   | Fish    | 96hours  |

- Conclusion / Summary** : Not available.

**12.2 Persistence and degradability**

- Conclusion / Summary** : Not available.

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

- Soil / water partition coefficient (Koc)** : Not available.
- Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

- PBT** : Not applicable.
- vPvB** : Not applicable.

- 12.6 Other adverse effects** : No known significant effects or critical hazards.



## MATERIAL SAFETY DATA SHEET

### 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

##### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

##### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information

#### INTERNATIONAL REGULATIONS

**UN CLASS/UN NUMBER** : Not applicable.

|                                 | ADR / RID      | ADN / ADNR     | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              | -              |
| Additional information          | -              | -              | -              | -              |

### 15. Regulatory information

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

##### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

##### Substances of very high concern

None of the components are listed.

##### Other EU regulations

##### Germany

**Hazard class for water** : 2 Appendix No.4

**AOX** : The product contains organically bound halogens and can contribute to the AOX value in waste water.

##### International regulations

**Registration status** : Australia (AICS)  
China (IECSC)  
Canada (NDSL)  
European Union (EINECS or ELINCS)  
Japan (ENCS)  
Philippines (PICCS)  
United States (TSCA)

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

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### 16. Other information

Abbreviations and acronyms : ATE=Acute Toxicity Estimete  
 CLP=Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272 / 2008]  
 DNEL=Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicated No Effect Concentration  
 RRN = REACH Registration Number

**Procedure used to derive the classification according to Regulation (EC) No. 1272 / 2008 [CLP / GHS]**

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

#### Europe

Full text of abbreviated H statements : Not applicable.

Full text of classifications [CLP / GHS] : Not applicable.

Full text of abbreviated R phrases : Not applicable.

Full text of classifications [DSD / DPD] : Not applicable.

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Version : 2

Form : *Iss SDS GHS Europe (EU) REACH Annex II (Reg 453 / 2010) / CLP V4.2 - Europe*

#### Notice to reader

*The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. it is not to be considered a guarantee of the product's properties.*