

Date: 2006/9/8

# Material Safety Data Sheet

## 1. Product and Company

### Product

Product code: DR-RA

Product name: CUT-OFF WHEEL

### Company

Company name: Disco Abrasive Systems K.K.

Address:

Address: 2-15, Minami Shinagawa 2-Chome, Shinagawa-ku, Tokyo

Zip code: 140-0004

Inquiries: Corporate Quality Assurance Group

Telephone: 0823-72-2211

Fax: 0823-72-2230

Office hours: Monday to Friday, 8:00-16:30 ( JST )

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## 2. Composition

Substance or mixture: mixture

Chemical characteristics: none in particular

Composition and content:

| Hazardous components: | Content ( % ): | CAS #: |
|-----------------------|----------------|--------|
| Nothing               |                |        |

| Non-hazardous components: | Content ( % ): | CAS #: |
|---------------------------|----------------|--------|
| Aluminum oxide            |                |        |
| Rubber                    |                |        |
| Others                    |                |        |

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## 3. Hazardous Identification

Most important hazards and effects: none in particular

Specific hazards and effects: none in particular

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## 4. First-aid Measures

Refer to " 7. Handling and Storage Precautions "

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## 5. Fire-fighting Measures

Suitable fire extinguishing substances: no specifications in particular

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## 6. Accidental Release Measures

Personal precautions: none

Environmental precautions: none

Methods for clean up: not applicable ( solid state precludes leakage )

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## 7. Handling and Storage

### Handling

|                                  |   |
|----------------------------------|---|
| <b>Technical measures:</b>       | none in particular  |
| <b>Remarks:</b>                  | This product is solidified during the forming process, so there are no hazards in particular during normal use.<br>Dust or particles generated during cutting and grinding may include a small portion of the product, but it is not harmful. However, such dust or particles may include the material being processed, in which case the MSDS of the material should be consulted.<br>Consult a doctor in the following cases, if necessary:<br>* inhalation<br>* skin contact<br>* eye contact<br>* ingestion |
| <b>Local ventilation:</b>        | If necessary due to the above cases, a ventilation system should be used.   |
| <b>Dust Prevention measures:</b> | If necessary due to the above cases, a dust collection system should be used.   |
| <b>Special safety handling:</b>  | none  |

### Storage

|   |  |
|---|--|
| <b>Storage Conditions:</b>              | In order to prevent oxidation and deterioration, avoid high temperature and humidity by storing in a cool, dark space. |
| <b>Technical measures:</b>              | none in particular   |
| <b>Incompatible products:</b>           | oxidized materials   |
| <b>Recommended packaging materials:</b> | attached package   |
| <b>Unsuitable packaging materials:</b>  | none   |

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## 8. Exposure Control / Personal Protection

|                            |   |
|----------------------------|---|
| <b>Protective wear:</b>    | In order to prevent exposure to a large amount of dust particles during cutting, protective equipment should be worn. |
| <b>Respiratory system:</b> | protective mask ( for fine dust particles )   |
| <b>Hands:</b>              | Protective gloves   |
| <b>Eyes:</b>               | protective glasses  |
| <b>Skin and body:</b>      | work clothes  |
| <b>Ears:</b>               | protective wear ( such as ear-plugs ), if necessary   |

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## 9. Physical and Chemical Properties

|                                    |  |
|------------------------------------|--|
| <b>Physical state:</b>             | solid, without volatility or sublimation |
| <b>Form:</b>                       | round and thin                           |
| <b>Color:</b>                      | Representatively black                   |
| <b>Odor:</b>                       | none                                     |
| <b>pH level and concentration:</b> | not applicable ( due to solid state )    |
| <b>Decomposition temperature:</b>  | not applicable                           |
| <b>Density:</b>                    | no data                                  |
| <b>Solubility:</b>                 | insoluble with water and oil             |

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## 10. Stability and Reactivity

|  |                                  |
|--|----------------------------------|
| <b>Stability:</b>                        | stable under normal temperatures |
| <b>Conditions to avoid:</b>              | none                             |
| <b>Hazardous decomposition products:</b> | none                             |

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## 11. Toxicological information

### Toxicological ( health ) effects

|                        |  |
|------------------------|--|
| <b>Acute toxicity:</b> | none   |
| <b>Local effects:</b>  | none   |
| <b>Exposure:</b>       | refer to " 7. Handling and Storage Precautions " |

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## 12. Ecological information

|                                       |   |
|---------------------------------------|---|
| <b>Mobility:</b>                      | refer to " 7. Handling and Storage Precautions "                                  |
| <b>Persistence / degradability:</b>   | no data   |
| <b>Bioaccumulation:</b>               | no data   |
| <b>Expected chemical behavior:</b>    | no data   |
| <b>Possible environmental impact:</b> | a small quantity of residue waste ( dust particles ) is generated during cutting. |
| <b>Ecotoxicity:</b>                   | none  |

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## 13. Disposal considerations

|                                      |   |
|--------------------------------------|---|
| <b>Recommended disposal methods:</b> | Commission an industrial disposal business trader which holds a license of Collection and transportation, and landfilling for glass and ceramics waste. |
| <b>Residue waste:</b>                | none  |
| <b>Contaminated packaging:</b>       | none  |

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## 14. Transport Considerations

|   |                |
|---|----------------|
| <b>Information on codes and classifications according to international regulations for transport:</b> | not applicable |
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## 15. Regulatory Information

Applied regulations:

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## 16. Other information

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