GPS Safety Summary
C.I. Pigment Red 202

Chemical Identity

Name: C.I. Pigment Red 202

CAS number: 3089-17-6

Molecular formula: C_{20}H_{10}Cl_{2}N_{2}O_{2}

IUPAC name: 2,9-dichloro-5,12-dihydroquin[2,3-b]acridine-7,14-dione

BASF brand names: Cinquasia® Magenta K 4535

For synonyms see end of

Product Uses

C.I. Pigment Red 202 is a coloring agent for inks and plastics.

Benefits

Cinquasia® Magenta K 4535
Application in inks: bluish process magenta quinacridone with outdoor properties
Application in plastics: A very versatile bright magenta pigment with outstanding dispersibility, excellent heat resistance and lightfastness. Suitable for virtually all polymers and applications.
Health Information

Human Health Safety Assessment

Note: The information contained in the table below may be useful to someone handling the concentrated substance such as a manufacturer or transporter. Consumers are not likely to come in contact with the concentrated substance. The data, while verifiable, are not intended to be comprehensive nor replace the data found in the (M)SDS.

<table>
<thead>
<tr>
<th>Effect Assessment</th>
<th>Result</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Virtually nontoxic after a single ingestion, a single skin contact and by inhalation. The statements have been derived in parts from products of a similar structure or composition.</td>
<td></td>
</tr>
<tr>
<td>Irritation</td>
<td>Not irritating to the skin and eyes.</td>
<td></td>
</tr>
<tr>
<td>Sensitization</td>
<td>Skin sensitizing effects were not observed in animal studies. The statement has been derived from products of a similar structure or composition.</td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No mutagenic effect was found in various tests with bacteria, mammalian cell culture and mammals. The statement has been derived in parts from products of a similar structure or composition.</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No experimental data is available regarding carcinogenicity.</td>
<td></td>
</tr>
<tr>
<td>Toxicity after repeated exposure</td>
<td>Repeated oral uptake of the substance did not cause substance-related effects. The statement has been derived from products of a similar structure or composition.</td>
<td></td>
</tr>
<tr>
<td>Toxicity for reproduction</td>
<td>Repeated oral uptake of the substance did not cause damage to the reproductive organs. Based on available data not considered to impair fertility or damage the unborn child. The statements have been derived in parts from products of a similar structure or composition.</td>
<td></td>
</tr>
</tbody>
</table>

Environmental Information

Environment Safety Assessment
Note: The information in this chapter is intended to provide brief and general information of this substance’s environmental impact. The results in the table below refer to testing performed with the concentrated substance. The data contained in this section explain the relative effect of the concentrated substance on the environment, as defined by certain tests.

<table>
<thead>
<tr>
<th>Effect Assessment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Toxicity</td>
<td>With high probability not harmful to aquatic life in the range of water solubility.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Poorly biodegradable.</td>
</tr>
<tr>
<td>Bioaccumulation potential</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

Physical/Chemical Properties

Phys/Chem Safety Assessment

- C.I. Pigment Red 202 is a powder which is insoluble in water. It is non flammable, non explosive and has no oxidising properties.

Note: The results in the table below refer to testing performed with the concentrated substance. It is not intended to be comprehensive or to replace information found in the (M)SDS.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No melting up to 400°C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Non explosive</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>Not auto-flammable</td>
</tr>
</tbody>
</table>

Exposure Potential

- Workplace exposure: Pigments are often handled in a dusty form, so general precautions against dust inhalation need to be observed. Based on the very low toxicity of C.I. Pigment Red 202 exposures are considered to be without risk other than that
related to inert inhalable dust. Nevertheless, workers should follow the recommended safety measures in the extended Safety Data Sheet (eSDS).

- **Consumer exposure:** Based on the very low toxicity of C.I. Pigment Red 202 exposure is considered to be without risk. C.I. Pigment Red 202 released during handling is of no concern for the health of consumers since consumers will not come into contact with harmful levels of C.I. Pigment Red 202. Nevertheless, consumers should always read product information before use and follow the label/use instructions.

- **Environmental exposure:** Though C.I. Pigment Red 202 is not biodegradable, the substance is not considered to pose an unacceptable risk for the environment. Due to its limited water solubility, the substance is not considered to be bioavailable in concentrations that cause adverse effects in aquatic organisms. Tests demonstrated that with high probability C.I. Pigment Red 202 is not harmful to aquatic organisms in the range of its water solubility. Further, the chemical is not expected to accumulate in the food chain. Conclusively, all identified uses are safe for the environment based on the scientific facts summarized above and when carried out in compliance with recommended risk management measures and applicable regulations.

**Recommended Handling Measures**

*The recommended safety measures generally apply in contact with the concentrated substance. It is NOT intended to replace the comprehensive guidance found in the (M)SDS, only supplement it. Please refer to the (M)SDS for specific safety and first aid measures.*

When using concentrated chemicals always make sure that there is adequate ventilation. Always use appropriate chemical resistant gloves to protect your hands and skin and always wear eye protection such as chemical goggles. Do not eat, drink, or smoke where chemicals are handled, processed, or stored. Wash hands and skin following contact. If the substance gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical attention. For specific advice please consult the corresponding (Material) Safety Data Sheet of the substance.

All effluent releases that may include the substance must be directed to a (municipal) waste water treatment plant that removes the substance from the final releases to the receiving water.

**Regulatory Information / Classification and Labeling**

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**Date of Issue:** March 2012
Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the (M)SDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

Note: The hazard statements and symbols presented here refer to the hazard properties of the concentrated substance and are meant to provide a brief overview of the substance’s labeling. It is not intended to be comprehensive or to replace information found in the (M)SDS.

Labeling according to UN GHS
UN GHS is the basis for country specific GHS labeling

Based on available data, labeling is currently not required.

Additional information

1. IFA GESTIS-database on hazardous substances
   http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp

2. Information on registered substance (ECHA)

Most commonly used synonyms

» Quino(2,3-b)acridine-7,14-dione, 2,9-dichloro-5,12-dihydro-

Disclaimer

This Product Safety Summary is intended to provide a general overview of the chemical substance. It contains basic information and is not intended to provide emergency response information, medical information or treatment information. The summary cannot be relied on to provide in-depth safety and health information. In-depth safety and health information must be obtained from the Material Safety Data Sheet ((M)SDS) for the chemical substance.
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Contact

For further information on this substance or GPS safety summaries in general, please contact: info.gps@basf.com