SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Product name: DIADUO-2
Cat. No. 40600036-40600045
Container size: 500 ml; 5 l

Relevant identified uses of the substance or mixture and uses advised against
Application: For grinding and polishing of materialographic specimens.
Uses advised against: No specific uses advised against are identified. (*)

Details of the supplier of the safety data sheet
Supplier: Struers ApS
Pederstrupvej 84
DK-2750 Ballerup
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI
Any questions to the contents of this material safety data sheet should be sent to: struers@struers.dk

Emergency telephone number
National Capital Poison Center: 1-800-222-1222
Infotrac:
1-800-535-5053
Struers US:
1-440-871-0071

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
OSHA 2012: The product is not classified.

Label elements
The substance/mixture does not meet the criteria for classification and labeling.

Other hazards
PBT/vPvB: No information available.
Other: Prolonged skin contact may cause temporary irritation. Splashes in the eyes may cause redness and irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures
The product contains: Water, Diamond and additives.
Does not contain substances that must be indicated according to current regulations.
SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No specific precautions.

Special hazards arising from the substance or mixture

Specific hazards: In case of fire, toxic gases may be formed.

Advice for firefighters

Protective equipment for firefighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
Avoid contact with skin and eyes. For personal protection, see section 8.

For emergency responders:
No specific recommendations. For personal protection, see section 8.

### Environmental precautions

No specific precautions.

### Methods and material for containment and cleaning up

**Spill Cleanup Methods:**
Dam and absorb spillage with sand, sawdust or other absorbent. Dispose of waste and residues in accordance with local authority requirements.

### Reference to other sections

**References:**
For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Safe handling advice:**
Avoid contact with skin and eyes. Observe good chemical hygiene practices.

**Technical measures:**
Work practice should minimize contact.

### Conditions for safe storage, including any incompatibilities

**Storage conditions:**
Store in tightly closed original container. Store at room temperature.

### Specific end use(s)

**Specific use(s):**
No information available.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit assigned.

Exposure controls

Engineering measures: Provide adequate ventilation.

Personal protection: Personal protection equipment should be chosen according to the ANSI standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with combination filter (type A2/P2).

Hand protection: Risk of contact: Wear protective gloves. Nitrile gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Risk of contact: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Not available.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Colored liquid. (blue/green/yellow/white/gray)</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not relevant.</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>212 °F</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not relevant.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>Not relevant.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Soluble in water</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature (°F)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°F)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Other information**

<table>
<thead>
<tr>
<th>Other data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compound (VOC)</td>
<td>0 g/l</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

Reactivity
Reactivity: None under normal conditions.

Chemical stability
Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions
Hazardous Reactions: None under normal conditions.

Conditions to avoid
Conditions/materials to avoid: No information available.

Incompatible materials
Incompatible materials: Strong oxidizing substances, strong acids and strong bases.

Hazardous decomposition products
Hazardous decomposition products: In case of fire, toxic gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity (Oral): Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
I.A.R.C. Monographs: No.
National Toxicology Program (NTP): No.
OSHA: No.
Reproductive Toxicity: Based on available data, the classification criteria are not met.
STOT - Single exposure: Based on available data, the classification criteria are not met.
STOT - Repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Skin contact: Prolonged contact may cause redness and irritation.
Eye contact: Splashes may irritate.
Ingestion: May irritate and cause malaise.
### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**
- Ecotoxicity: The product is not expected to be hazardous to the environment.

**Persistence and degradability**
- Degradability: The degradability of the product has not been stated.

**Bioaccumulative potential**
- Bioaccumulative potential: No data available on bioaccumulation.

**Mobility in soil**
- Mobility: No data available.

**Results of PBT and vPvB assessment**
- PBT/vPvB: No information available.

**Other adverse effects**
- Other adverse effects: None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**
- Waste from residues: Dispose of waste and residues in accordance with local authority requirements.
- Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.

### SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

**UN number**
- UN-No: -

**UN proper shipping name**
- Proper Shipping Name: -

**Transport hazard class(es)**
- Class: -

**Packing group**
- PG: -

**Environmental hazards**
- Marine pollutant: -
- Environmentally Hazardous substance: -

**Special precautions for user**
- Special precautions: None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Transport in bulk: Not relevant.
SECTION 15: REGULATORY INFORMATION

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

Special provisions: State and local regulation may apply.

TSCA: Listed.

NFPA Rating: Health: 0  Fire: 0  Reactivity: 0  Other:-

SARA Section 302: No.
SARA Section 304: No.
SARA Section 313: No.
SARA (311/312) Hazard categories: No.

National regulation: The following lists have been checked:
Threshold Limit Values (2019), ACGIH, by the American Conference on Governmental Industrial Hygienists.
NIOSH Pocket Guide to Chemical Hazards.
The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.
SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1. The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Abbreviations and acronyms used in the safety data sheet:

- PBT = Persistent, Bioaccumulative and Toxic.
- vPvB = very Persistent and very Bioaccumulative.

Additional information:

- Classification according to HCS 2012:
- Calculation method.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.