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

Product identifier

Product name: REPLIFIX-2 & REPLIFIX-20, YELLOW AND BLUE
Cat. No. 40900084, 40900086

Container size: Yellow/Blue: 250 g

Relevant identified uses of the substance or mixture and uses advised against

Application: Replication system for materialographic surfaces.

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

Prolonged skin contact may cause redness and irritation. May cause minor irritation on eye contact.

PBT/vPvB: Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: Organopolysiloxane mixture.
SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Not likely, due to the form of the product.

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: Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

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

Protective equipment: Avoid contact with skin and eyes. Avoid inhalation of dust. For personal protection, see section 8. (*)

Emergency procedures: For personal protection, see section 8. No specific recommendations. (*)

Environmental precautions

Environmental precautions: Avoid discharge into water courses or onto the ground.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Scrape up spillage or absorb with absorbing material.

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 inhalation of dust and contact with skin and eyes. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize contact. Use work methods which minimize dust production.

Technical precautions: Local exhaust is recommended.

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

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.:</th>
<th>Chemical name:</th>
<th>As:</th>
<th>Exposure limits:</th>
<th>Type:</th>
<th>Notes:</th>
<th>References:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, respirable dust</td>
<td>-</td>
<td></td>
<td></td>
<td>See Z-3</td>
<td>OSHA</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, total dust</td>
<td>-</td>
<td></td>
<td></td>
<td>See Z-3</td>
<td>OSHA</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, Crystalline, respirable particulate matter</td>
<td>-</td>
<td>0.025 mg/m³</td>
<td>TWA</td>
<td>A2</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Notes: A2: Suspected Human Carcinogen.

Exposure controls

Engineering measures: Dust-raising handling: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

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

Respiratory equipment: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Hand protection: Risk of contact: Wear protective gloves.

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

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

Hygiene measures: Wash hands after handling. When using do not eat, drink or smoke. Personal protection may not be worn during meal breaks. Personal protection must be kept separate from other clothes.

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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td>yellow paste</td>
</tr>
<tr>
<td></td>
<td>blue paste</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>slight odor</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Melting point:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Boiling point:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>&gt;212°F</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor pressure:</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor density:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Relative density:</strong></td>
<td>1.8 (77°F)</td>
</tr>
<tr>
<td><strong>Solubility:</strong></td>
<td>insoluble 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**

**Other data:** Volatile Organic Compound (VOC): 0 g/l
SECTION 10: STABILITY AND REACTIVITY

Reactivity
Reactivity: There are no known reactivity hazards associated with this product.

Chemical stability
Stability: Stable under normal temperature conditions and recommended use.

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

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

Incompatible materials

Hazardous decomposition products
Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<table>
<thead>
<tr>
<th>Category</th>
<th>Based on available data, the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity (Oral)</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute Toxicity (Dermal)</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute Toxicity (Inhalation)</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This product contains crystalline silica which is considered hazardous by inhalation (as dust) and classified as an agent, which is probably carcinogenic to humans by IARC and NTP. Due to the fact that the product does not generate dust under normal handling, the supplier considers that the product does not fall under Group 2A in IARC and that it is not considered as a carcinogen in NTP.</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>STOT - Single exposure</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>STOT - Repeated exposure</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Dust-raising handling: Dust may irritate throat and respiratory system and cause coughing.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Prolonged contact may cause redness and irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May cause temporary eye irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No harmful effects expected in amounts likely to be ingested by accident.</td>
</tr>
</tbody>
</table>
SECTION 12: ECOLOGICAL INFORMATION

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

Persistence and degradability
Degradability: The product contains inorganic compounds which are not biodegradable. The other substances of the product are slowly biodegradable.

Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil
Mobility: No data available.

Results of PBT and vPvB assessment
PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other adverse effects
Other adverse effects: No information available.

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: 1  Fire: 1  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 (2018), 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: 6, 9.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

[Signature]

Allan Vorup

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.