

# SAFETY DATA SHEET



MD-Piano 80/MD-Piano 120/MD-Piano 220/MD-Piano  
500/MD-Piano 1200/MD-Piano 2000/MD-Piano 4000/MD-  
Molto 220/MD-Mezzo 220

## Section 1. Identification

**GHS product identifier** : MD-Piano 80/MD-Piano 120/MD-Piano 220/MD-Piano 500/MD-Piano 1200/MD-Piano 2000/MD-Piano 4000/MD-Molto 220/MD-Mezzo 220

**Cat. No.** : 40800121, 40800122, 40800123, 40800124, 40800125, 40800126, 40800127, 40800128, 40800129, 40800130, 40800131, 40800132, 40800133, 40800134, 40800135, 40800136, 40800137, 40800138, 40800139, 40800140, 40800141, 40800142, 40800143, 40800144, 40800145, 40800146, 40800147, 40800148, 40800187, 40800188, 40800189, 40800190, 40800191, 40800192, 40800193, 40800194

**Container size** : Not available.

**Other means of identification** : Not available.

**Product type** : Solid.

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

**Product use** : For wet grinding of materialographic specimens.

**Area of application** : Professional applications.

| Uses advised against | Reason |
|----------------------|--------|
| Dry grinding         | -      |

**Supplier's details** : Struers Inc.  
24766 Detroit Rd. Westlake  
Cleveland, OH 44145  
United States  
Telephone: +1 (440) 871 0071

**e-mail address of person responsible for this SDS** : sdsquestions@struers.dk

**Emergency telephone number (with hours of operation)** : National Capital Poison Center: 1-800-222-1222  
Infotrac: 1-800-535-5053  
Struers US:  
1-440-871-0071

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

### GHS label elements

**Signal word** : No signal word.

**Date of issue/Date of revision** : 03/20/2026    **Date of previous issue** : 09/17/2024    **Version** : 2    1/13



## Section 2. Hazards identification

|                                         |                                                                                                                                       |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statements</b>                | : No known significant effects or critical hazards.                                                                                   |
| <b><u>Precautionary statements</u></b>  |                                                                                                                                       |
| <b>Prevention</b>                       | : Not applicable.                                                                                                                     |
| <b>Response</b>                         | : Not applicable.                                                                                                                     |
| <b>Storage</b>                          | : Not applicable.                                                                                                                     |
| <b>Disposal</b>                         | : Not applicable.                                                                                                                     |
| <b>Hazards not otherwise classified</b> | : None known.                                                                                                                         |
| <b>Hazards identified when used</b>     | :  No known significant effects or critical hazards. |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

| <b>Ingredient name</b> | <b>Synonyms</b> | <b>%</b> | <b>Identifiers</b> |
|------------------------|-----------------|----------|--------------------|
| Cured epoxy resin      | -               | ≥4 - ≤21 | -                  |
| silicon carbide        | -               | ≤5.5     | CAS: 409-21-2      |

NOTE: All ingredients are encapsulated in a nonhazardous mixture. Injury from airborne dusts and sensitization should not occur under normal conditions.

The product does not contain SiC whiskers.

Trials conducted under conditions applicable to the 'intended use' does not reveal other components relevant for worker exposure.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

## Section 4. First aid measures

### Description of necessary first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : The information provided is relevant for operations generating dust and fumes. 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.                                                                    |
| <b>Inhalation</b>   | : The information provided is relevant for operations generating dust and fumes. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.                                                                                                                          |
| <b>Skin contact</b> | : The information provided is relevant for operations generating dust and fumes. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.                                                                                                                         |
| <b>Ingestion</b>    | : The information provided is relevant for operations generating dust and fumes. Wash out mouth with water. 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. |

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| <b>Eye contact</b> | : No known significant effects or critical hazards. |
|--------------------|-----------------------------------------------------|

Date of issue/Date of revision

: 03/20/2026

Date of previous issue

: 09/17/2024

Version : 2

2/13



## Section 4. First aid measures

- Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Not applicable.

- Special protective actions 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.

- 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.

## Section 6. Accidental release measures

### 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. Put on appropriate personal protective equipment.

- For emergency responders** : If specialized 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".



## Methods and materials for containment and cleaning up

**Large spill** : Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Precautions for safe handling

|                                                                     |                                                                                                            |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage, including any incompatibilities</b> | : Store in accordance with local regulations. Store in original container, protected from direct sunlight. |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

## Control parameters

## Occupational exposure limits



## Section 8. Exposure controls/personal protection

silicon carbide

The recommendations apply to particles that 1) do not have an applicable TLV®; 2) are insoluble or poorly soluble in water; 3) have low toxicity. For additional information, refer to ACGIH TLVs® and BEIs® Appendix B.

TWA 8 hours: 3 mg/m<sup>3</sup>. Form: respirable particle.

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: inhalable particle.

**OSHA PEL (United States, 5/2018) [Particulates not otherwise regulated]**

TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust.

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

**CAL OSHA PEL (United States, 1/2025) [particulates not otherwise regulated]**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: respirable fraction.

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.

**[Air contaminant]**

**ACGIH TLV (United States, 1/2025) [Silicon carbide (nonfibrous)]**

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Inhalable fraction.

TWA 8 hours: 3 mg/m<sup>3</sup>. Form: Respirable fraction.

**NIOSH REL (United States, 10/2020)**

TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

TWA 10 hours: 10 mg/m<sup>3</sup>. Form: Total.

**OSHA PEL (United States, 5/2018)**

TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust.

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

**CAL OSHA PEL (United States, 1/2025)**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: respirable fraction.

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.

### Biological exposure indices

No exposure indices known.

### **Appropriate engineering controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### **Environmental exposure controls**

: 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.

### Individual protection measures

#### **Hygiene measures**

: 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.

#### **Eye/face protection**

: 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 contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**



## Section 8. Exposure controls/personal protection

- Hand protection** : 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): leather gloves.
- Body protection** : 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.
- Other skin protection** : 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.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Solid.
- Color** : Various.
- Odor** : Slight
- Odor threshold** : Not applicable.
- pH** : Not applicable.
- Melting point/freezing point** : Not applicable.
- Boiling point or initial boiling point and boiling range** : Not applicable.
- Flash point** : [Product does not sustain combustion.]
- Evaporation rate** : Not applicable.
- Flammability** : Not applicable.
- Lower and upper explosion limit/flammability limit** : Not applicable.
- Vapor pressure** : Not applicable.
- Relative vapor density** : Not applicable.
- Relative density** : Not applicable.
- Density** : Not applicable.
- Solubility(ies)** :

| Media | Result    |
|-------|-----------|
| water | Insoluble |

- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not applicable.
- SADT** : Not applicable.
- Viscosity** : Dynamic (room temperature): Not applicable.  
Kinematic (room temperature): Not applicable.  
Kinematic (40°C (104°F)): Not applicable.
- Flow time (ISO 2431)** : Not applicable.



## Section 9. Physical and chemical properties

### Particle characteristics

Median particle size : Not applicable.

### Additional information

Physical/chemical properties comments : No additional information.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
For intended use, there is not expected to be hazardous decomposition products or dust.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Product/ingredient name

 silicon carbide

##### Result

**Rat - Female - Oral - LD50**

>2000 mg/kg

**Rat - Male, Female - Dermal - LD50**

>2000 mg/kg

OECD 423 [Acute Oral toxicity - Acute Toxic Class Method]

OECD 402 [Acute Dermal Toxicity]

Conclusion/Summary [Product] : No known significant effects or critical hazards.

#### Skin corrosion/irritation

Conclusion/Summary [Product] : Non-irritating to the skin.

#### Serious eye damage/eye irritation

Conclusion/Summary [Product] : Non-irritating to the eyes.

#### Respiratory corrosion/irritation



## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

#### **Skin**

**Conclusion/Summary [Product]** : Non-sensitizer to skin.

#### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.



## Section 11. Toxicological information

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary [Product]** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| silicon carbide         | 2500         | 2500           | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

 silicon carbide

#### Result

**Chronic - NOEC - Fresh water**  
Daphnia - *Daphnia magna*  
≥100 mg/l [22 days]

OECD 211 [Daphnia Magna  
Reproduction Test]

**Conclusion/Summary [Product]** : No known significant effects or critical hazards.

### Persistence and degradability

**Conclusion/Summary [Product]** : No known significant effects or critical hazards.

### Bioaccumulative potential

Not available.



## Section 12. Ecological information

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

## Section 14. Transport information

|                                   | DOT<br>Classification | TDG<br>Classification | Mexico<br>Classification | IMDG           | IATA           |
|-----------------------------------|-----------------------|-----------------------|--------------------------|----------------|----------------|
| <b>UN number</b>                  | Not regulated.        | Not regulated.        | Not regulated.           | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>    | -                     |                       |                          | -              | -              |
| <b>Transport hazard class(es)</b> | -                     |                       |                          | -              | -              |
| <b>Packing group</b>              | -                     |                       |                          | -              | -              |
| <b>Environmental hazards</b>      | No.                   | No.                   | No.                      | No.            | No.            |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.



## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): All components are active or exempted.

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

No products were found.

### SARA 313

Not applicable.

### State regulations

**Massachusetts** : The following components are listed: SILICON CARBIDE

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: SILICON CARBIDE

**Pennsylvania** : The following components are listed: SILICON CARBIDE

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.



## Section 15. Regulatory information

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 16. Other information

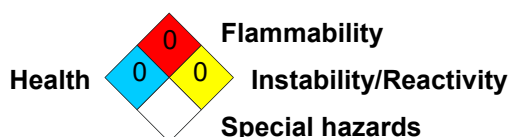
### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | / | 0 |
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

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

### History

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of issue/Date of revision</b> | : 03/20/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Date of previous issue</b>         | : 09/17/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Version</b>                        | : 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Prepared by</b>                    | : Sphera Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Key to abbreviations</b>           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>IMO = International Maritime Organization<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>TDG = Transportation of Dangerous Goods<br>UN = United Nations |
| <b>References</b>                     | : HCS (U.S.A.)- Hazard Communication Standard<br>International transport regulations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Indicates information that has changed from previously issued version.



Section 16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

