

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

IST® bite fork
Article no.: No. 98045

Revised on: 14.05.2024
Version: 5.0 Replaced version: 4.0



SECTION 1: Identification of the substance or mixture and of the company/undertaking

| | | |
|-------|--|--|
| 1.1 | Product identifier | IST® bite fork Article no.: 98045 |
| 1.2 | Relevant identified uses of the substance or mixture and uses which are not recommended | |
| 1.2.1 | Relevant uses medical device: | Medical device |
| 1.2.2 | Uses that are not recommended: | None known |
| 1.3 | Details of the supplier providing the safety data sheet | Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de |
| 1.4 | Emergency number | Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34 |

SECTION 2: Possible dangers

| | | |
|-------|---|---|
| 2.1 | Classification of the substance or mixture This substance does not meet the criteria for classification according to Regulation No. 1272/2008/EC. | |
| 2.1.1 | Classification according to (EC) Regulation 1272/2008 as amended. not required | |
| 2.2 | Labelling elements Additional information: | No additional information is available. |
| 2.3 | Other dangers | Dust. May be irritating to skin, eyes and respiratory system. If dust is formed (fine dust): May form explosive dust-air mixture if dispersed. Molten product may cause severe burns. Ingestion may cause gastrointestinal upset and pain in the gastrointestinal tract. This substance does not meet the PBT-NPvB criteria of REACH, Annex XIII. |

SECTION 3: Composition / Information on ingredients

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|-----|----------------------------------|---|
| 3.1 | Chemical characterisation | Polystyrene mixture contains: CAS No. 9003-55-8: Styrene-Butadiene Copolymer |
|-----|----------------------------------|---|

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| | | |
|-------|------------------------------|---|
| 3.1.1 | Dangerous ingredients | The product does not contain any hazardous substances in quantities that are required by applicable law to be mentioned in this section |
|-------|------------------------------|---|

Section 4: First aid measures

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| 4.1 | Description of the first aid measures | |
| | General notes | No special measures are required |
| | Inhalation: | Provide fresh air. Put affected person in resting position and keep warm. Consult a doctor |
| | Eye contact: | Immediately rinse with running water for 10 to 15 minutes with the eyelids open. Remove any contact lenses if possible. Continue rinsing. Consult an ophthalmologist in case of irritation |
| | Skin contact: | The melted product may cause severe burns. Do not remove product from skin without medical attention. After contact with the melted product, cool the affected skin area quickly with water. |
| | Ingestion: | Rinse mouth with water About one to two glasses of water limp. Never administer anything by mouth to an unconscious person. Call a doctor |
| 4.2 | Most important symptoms and effects, both acute and delayed: | Dust. Skin irritation, eye irritation and redness. |
| 4.3 | Indications for immediate medical help or special treatment | |
| | Dangers: | There is no information available |
| | Treatment: | Symptomatic treatment. Decontamination. Vital signs |

SECTION 5: Fire-fighting measures

| | | |
|-----|---|--|
| 5.1 | General fire hazards | Use water spray to protect personnel and to cool containers in the hazardous area |
| | Extinguishing agent Suitable extinguishing media | Water spray, foam, dry powder, carbon dioxide (CO ₂) |
| | Unsuitable extinguishing media: | Water in full jet |
| 5.2 | Special hazards arising from the substance or mixture: | In the event of fire, the following can be produced: Smoke, carbon monoxide and carbon dioxide (CO ₂). In case of dusting (fine dust) Can form an explosive dust-LuR mixture in case of dispers on. |
| 5.3 | Advice for firefighters Advice for firefighters: | Wear environmental self-contained breathing apparatus and chemical protective suit |

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| Special protective equipment for fire fighting: | Prevent extinguishing water from entering surface waters or groundwater. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. |
|--|---|

SECTION 6: Accidental release measures

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|------------|---|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures: | Wear personal protective equipment. Do not inhale dust. |
| 6.2 | Environmental protection measures: | Prevent penetration into soil, water or canahsation. |
| 6.3 | Methods and material for retention and cleaning: | Collect mechanically. In closed containers and take for disposal. dispose of Avoid generation of dust Remove all sources of ignition Ensure adequate ventilation. Special risk of slipping due to spilled product |
| 6.4 | Reference to other sections: | See supplementary paragraphs 8 and 13. |

Section 7: Handling and storage:

| | | |
|------------|---|--|
| 7.1 | Protective measures for safe handling: | Ensure good ventilation of store and workplace. Do not inhale dust. Extraction required if dust is generated. Molten product. Avoid substance contact |
| | Notes on fire and explosion protection: | Take measures against electrostatic charges Keep away from ignition sources. Use grounding devices Use explosion-proof equipment and spark milling tools Avoid OKene flames. In case of dust formation (fine dust) Dust explosion hazard. |
| 7.2 | Conditions for safe storage taking into account incompatibilities: | Store in a well-ventilated place Keep container tightly closed. Protect from heat/sunlight |
| | Storage stability: | Store in a well-ventilated place Keep container tightly closed. Protect from heat/sunlight |
| | Storage class: | 11 = Combustible solids |
| 7.3 | Specific end uses: | There are no Informabonen available. |

SECTION 8: Exposure controls/personal protective equipment

| | | |
|------------|--|--|
| 8.1 | Parameters to be monitored Occupational exposure limit values | CAS-Nr. Bezeichnung: Styrolux® Typ: Deutschland: AGW Kurzzeit :Grenzwert: 2,5 mg/m' Typ: Deutschland: AGW Kurzzeit :Grenzwert: 20 mg/ m Typ: Deutschland: AGW Langzeit :Grenzwert: 1,25 mg/m |
|------------|--|--|

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| | | |
|------------|--|---|
| | | <p>Typ: Deutschland: AGW Langzeit :Grenzwert: 10 mg/m Typ: Deutschland: DFG Kurzzeit :Grenzwert: 2,4 mg/m Type: Germany: DFG Long-term :Grenzwert: 0.3 mg/m Type: Germany: DFG Long-term :Grenzwert: 4 mg/m CAS No. 100-42-5 Identification: Styrene Type: Germany: AGW Short-term Grenzwert: 172 mg/m': 40 ppm Type: Germany: AGW Long-term : Grenzwert: 86 mg/m'; 20 ppm</p> |
| | Biological limit values | <p>CAS No. 100-42-5 Designation: Styrene Germany: TRGS 903 /Urin Limit values: 600 mg/g Creatinine Parameter: Mandelic acid + phenylglyoxylic acid Sampling: for long-term exposure End of exposure or shift</p> |
| 8.2 | Exposure controls Suitable engineering controls: | <p>Provide good ventilation in the workplace. Additional controls are not normally required when handling polymers. Thermal extrusion Ensure that the occupational exposure limit (OEL) is not exceeded by using local exhaust ventilation. The use of respiratory protection may be required during maintenance work.</p> |
| | Individual protective measures, for example personal protective equipment | |
| | General information: | If the occupational exposure limits (OEL) are exceeded, a respirator must be worn. Use filter type A-P2 according to EN 14387. |
| | Eye/face protection: | Tight-fitting safety goggles according to EN 166. |
| | Skin protection Hand protection: | <p>Protective gloves according to EN 374. Protective gloves made of fabric or leather.</p> <p>When melting: Heat-resistant protective gloves according to EN 407. Glove material: leather.</p> <p>The specifications of the manufacturer of the protective gloves regarding permeability and breakthrough times must be observed.</p> |
| | Other: | <p>The product contains very small amounts of residual monomers and process chemicals (styrene, ethylbenzene and butadiene) together with possible decomposition products that may be</p> <p>may be formed during thermal processes. Since the identity and content of these constituents depends on the process conditions (temperature, etc.), it is the responsibility of the user to determine appropriate protective or safety measures.</p> |
| | Respiratory protection: | If the occupational exposure limits (OEL) are exceeded, a respirator must be worn. Use filter type A-P2 according to EN 14387. |
| | Hygiene measures: | <p>Molten product: Avoid contact with skin Do not inhale dusts and vapors. Keep away from sources of ignition Wash hands before breaks and at end of work.</p> <p>In case of dust formation: Particular risk of slipping if spread on the floor see Chapter 7. No measures beyond these are required.</p> |
| | Limitation and monitoring of environmental exposure: | |

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SECTION 9: Physical and chemical properties

| 9.1 | Information on the basic physical and chemical properties |
|--|--|
| Parameter | Value |
| State of aggregation | solid, granules |
| Colour | colorless, clear |
| Smell | weak, characteristic |
| Melting point/freezing point | 30 °C (DIN EN ISO 306) |
| Boiling point or initial boiling point and boiling range | No data available |
| Flammability | No data available |
| Lower explosion limit upper explosion limit | In case of dust formation (fine dust). In case of dispersion may form explosive dust-air mixture |
| Flash point | No data available |
| Ignition temperature | No data available |
| Decomposition temperature | ca. 300 °C |
| pH value | No data available |
| Kinematic viscosity | No data available |
| Solubility | insoluble |
| Partition coefficient n-octanol/water (log value) | No data available |
| Vapour pressure | No data available |
| Density and/or specific gravity | at 20°C: approx. 1.05 g/an' (DIN 53479) |
| Relative vapour density | No data available |
| Particle properties | No data available |
| 9.2. | Other information Bulk density at 20 °C: approx. 640 kg/m' (DIN 53466) |

SECTION 10: Stability and reactivity

| | | |
|------|---|--|
| 10.1 | Reactivity | see 10.3 |
| 10.2 | Chemical stability | Stable under specified storage conditions. |
| 10.3 | Possibility of hazardous reactions | In case of dust formation (fine dust): May form explosive dust-air mixture if dispersed. |
| 10.4 | Conditions to avoid | Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation. |
| 10.5 | Incompatible materials | Strong oxidizing agents |
| 10.6 | Decomposition products | Hazardous decomposition products may be released during severe material overheating: Hydrogen cyanide, monomers, hydrocarbons, gases/vapors, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide. Them decomposition. approx. 300 °C |

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SECTION 11: Toxicological data

| | | |
|--------|---|---|
| 11.1 | Information on hazard classes within the meaning of Regulation (EC) No 1272/2008 | |
| | acute toxicity | The statements are derived from the properties of the individual components. No toxicological data are available for the product as such. |
| | Corrosive/irritant effect on the skin | Missing data not expected |
| | Serious eye damage/irritation | Based on available data, the classification criteria are not met |
| | Sensitisation of the respiratory tract/skin | 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 |
| | Reproductive toxicity | Based on available data, the classification criteria are not met |
| | Specific target organ toxicity at single exposure | Based on available data, the classification criteria are not met |
| | Specific target organ toxicity in case of repeated exposure | Based on available data, the classification criteria are not met |
| | Aspiration hazard | Based on available data, the classification criteria are not met |
| 11.2 | Information on other hazards | |
| | Based on available data, the classification criteria are not met | |
| 11.2.1 | Endocrine disrupting properties | |
| | Based on available data, the classification criteria are not met | |
| 11.2.2 | Other information | |
| | According to many years of experience, no adverse effects are known if the product is handled properly. | |
| | effects are known. Dust: May be irritating to skin, eyes and respiratory system. | |
| | Molten product may cause severe burns. | |
| | Thermal treatment, processing: Irritating to eyes, respiratory system and skin After ingestion: | |
| | Ingestion may cause gastrointestinal upset and pain in the stomach and intestines. | |

SECTION 12. Environmental information

| | | |
|------|--------------------------------------|--|
| 12.1 | Toxicity | No indications of aquatic toxicity |
| 12.2 | Persistence and degradability | Biodegradation: The product is not readily biodegradable The product is likely to be persistent in the environment. It can be mechanically separated in sewage treatment plants. |
| | | 12.3 Bioaccumulative potential |
| 12.3 | Bioaccumulative potential | To avoid bioaccumulation, plastics should not be disposed of in the sea or other bodies of water. |
| 12.4 | Mobility in soil | No data available |

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| 12.5 | Results of the PBT and vPvB assessment | This substance does not meet the PBT-NPvB criteria of REACH, Annex XIII. |
| 12.6 | Endocrine disrupting properties | No data available |
| 12.7 | Other adverse effects | Do not allow to enter ground water, bodies of water or drains. |

SECTION 13: Disposal instructions

| | | |
|------|--------------------------------|--|
| 13.1 | Waste treatment process | |
| | General information | Disposal according to Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG). Dispose of to a suitable incineration plant/landfill in accordance with local regulations. Waste code number: 07 02 99 = Waste from MFSU of plastics, synthetic rubber and synthetic fibers MFSU = Manufacture, preparation, distribution and use. |
| | Disposal methods | Dispose of in accordance with official regulations. Non-contaminated and residual empty packaging can be recycled |

SECTION 14: Transport information

| | | |
|------|--|--|
| 14.1 | ADR | not applicable |
| 14.2 | ADN | not applicable |
| 14.3 | RID | No dangerous goods in the sense of these transport regulations |
| 14.4 | IMDG | not applicable |
| 14.5 | IATA | not applicable |
| 14.6 | Special precautions for the user: | No dangerous goods in the sense of these transport regulations |
| 14.7 | Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code: | Not applicable. |

SECTION 15: Legislation

| | | |
|------|--|------|
| 15.1 | Safety, health and environmental regulations/specific legislation for the substance or mixture: | |
| | EU regulations | |
| | Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances: | none |
| | Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended: | none |
| | Regulation (EC) No 649/2012 on the export and import of dangerous chemicals: | none |
| | Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended: | none |

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| | | |
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| | EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation: | none |
| | Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles : | none |
| | Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...: | none |
| | Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding: | none |
| | Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: | none |
| | REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants | none |
| | Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work: | none |
| | National regulations | |
| | Water hazard class | nwg = not hazardous to water |
| | Reference to Technical Rules for Hazardous Substances (TRGS) | none |
| | VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC) | none |
| | Other regulations | none |
| 15.2 | Chemical safety assessment | No shock safety assessment is required for this substance.. |

SECTION 16: Other information

| | | |
|-------------|--|--|
| 16.1 | Information on the revision | Not relevant. |
| | Important literature references and data sources: | There are no data available. |
| | Training information: | There are no data available. |
| | Disclaimer: | More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise. |