

**Certified Translation from German into English**  
**Safety Data Sheet**



According to Ordinance (EC) No. 1907/2006 as per Article 31

Product Name: iglidur® IC-04      Amended on: 28.08.2019      Page: 1/9

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## **SECTION 1: Description of the material or mixture and the company**

### **1.1 Product identifier**

Product name: iglidur® IC-04

### **1.2 Relevant identified use of material or mixture and uses which should be avoided**

Relevant identified uses: coating material, powder

Uses which should be avoided: direct contact with foodstuff

### **1.3 Details on supplier who provides the safety data sheet**

Company:      igus® GmbH  
                    Spicher Str. 1a  
                    D-51147 Köln

Telephone:    +49 2203/9649-0  
Fax:            +49 2203/9649-222  
E-mail:        info@igus.de

### **1.4 Emergency phone number**

Emergency phone number: +49 551/19240 (Poison Information Center North)

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## **SECTION 2: Possible risks**

### **2.1 Classification of material or mixture**

Classification according to ordinance (EC) No. 1272/2008

The product is not classified as dangerous.

Classification according to OSHA 29 CFR 1910.1200HCS (USA)

OSHA HCS 2012      Combustible dust

### **2.2 Labelling elements**

Classification according to OSHA 29 CFR 1910.1200HCS (USA)

OSHA HCS 2012      Warning

Can cause concentrations of combustible dust in the air

### **2.3 Other risks**

No special risks are known if regulations/notes on proper storage and handling are respected.

In case of a secondary processing of the product appropriate prevention measures need to be taken. If dusts, fumes or mists occur during machining, use appropriate ventilation in order to keep the effects of air pollutants below the limit values. Dust can cause mechanical irritations.

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In case of unintended release, remove mechanically in order to prevent the risk of slipping or tripping. Keep away from open fire since the product is combustible.

Classification according to OSHA 29 CFR 1910.1200HCS (USA)

OSHA HCS 2012      Can cause concentrations of combustible dust in the air

Classification according to WHMIS (Canada)

Can cause concentrations of combustible dust in the air

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### **SECTION 3: Composition / information about components**

The product is based on a thermoplastic polymer compound with additives and fillers.

#### **3.1 Substances**

Not applicable.

#### **3.2 Mixtures**

Not applicable.

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### **SECTION 4: First-aid measures**

#### **4.1 Description of first-aid measures**

General information: The first-aid workers must protect themselves. Move affected persons away from the danger zone. Let them rest. Do not leave affected person unattended.

Inhalation: After inhaling decomposition products, move affected person into the fresh air and position in such a way that breathing is facilitated. Seek medical treatment if complaints occur.

Skin contact: Irritations or injuries might occur due to mechanical contact. Rinse affected skin area with a lot of water. If symptoms occur, seek medical attention. Heated coating powder or coated moulded parts can cause thermal burns which could lead to pain, redness and the formation of blisters. Immediately cool affected skin areas with cold water after contact with the molten polymer. Seek immediate medical attention. Do not peel off the cooled product from the skin.

Eye contact: irritations or injuries might occur due to mechanical contact. In the case of irritations caused by dust or combustion products rinse the affected eyes for several minutes with clean water or an eyewash solution while keeping the eyelids pulled open. Check for contact lenses and remove them if applicable. Seek medical attention if complaints persist.

Ingestion: Risk of suffocation in case of small parts. Seek medical advice. Do not induce vomiting.

#### **4.2 Most important acute and delayed symptoms and effects**

Inhalation: No special effects or risks are known.

Skin contact: No special effects or risks are known.

Eye contact: No special effects or risks are known.

Ingestion: No special effects or risks are known.

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#### **4.3 Information on immediate medical assistance or special treatment**

- Inhalation:      Move affected person into the fresh air and position in such a way that breathing is facilitated. Seek medical treatment if complaints occur.
- Skin contact:      After skin contact rinse affected skin area with soap and water. Cool molten product with a lot of water and do not peel off from the skin. Seek immediate medical attention.
- Eye contact:      Immediately rinse eyes for 20 minutes with water while keeping the eyelids pulled open. Remove contact lenses. Seek medical attention if complaints persist.
- Ingestion:      Call a medical doctor immediately. Do not induce vomiting. Rinse mouth with a lot of water.

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### **SECTION 5: Fire-fighting measures**

The product is combustible.

#### **5.1 Fire-extinguishing agents**

Suitable fire-extinguishing agents: Use water spray jet, extinguishing powder, alcohol-resistant foam or carbon dioxide

Unsuitable fire-extinguishing agents: water with full jet

#### **5.2 Special hazards due to substance or mixture**

Dangerous combustion products: in case of a fire hazardous decomposition products can occur: carbon oxides, nitrogen oxides, cyanide, ammonia, aldehydes, aliphatic hydrocarbons as well as toxic fumes, gases or particles.

Under certain fire conditions traces of other poisonous products cannot be ruled out.

#### **5.3 Information on fire-fighting**

Only stay in the danger zone with a breathing apparatus that is independent of the environmental air.

Wear personal protective equipment.

Cool endangered containers from a safe distance with water spray jet.

Settle evolving vapours with water.

Prevent flashbacks.

Dust is combustible.

Prevent penetration of fire-fighting water into surface, ground water and soil.

Wear appropriate protective clothing and keep a safety distance to avoid skin contact.

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## **SECTION 6: Measures after unintentional release**

### **6.1 Personal precautions, protective equipment and measures to be taken in the case of emergencies**

Remove mechanically in order to prevent the risk of slipping or tripping. Avoid the formation of dust. Keep away from open fire since product is combustible.

### **6.2 Environmental protection measures**

Do not allow to penetrate into soil, surface water, drains, drain pipes or into the sewage system. Inform authorities in charge if the product has caused environmental pollution.

### **6.3 Methods and material for retention and cleaning**

Small released quantities: remove mechanically.

Large released quantities: remove mechanically.

### **6.4 References to other sections**

Refer to SECTION 1 for emergency contact information.

Refer to SECTION 7 for handling and storage.

Refer to SECTION 8 for information regarding suitable personal protective clothing.

Refer to SECTION 13 for further information on waste treatment.

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## **SECTION 7: Handling and storage**

### **7.1 Protective measures for safe handling**

Notes on safe handling: Provide good ventilation or extraction systems at the processing machines. Avoid the inhalation of dusts/mists/fumes. An accumulation of dust can lead to the risk of a dust explosion. Generally prevent the accumulation of dust. Take measures against electrostatic charging. Keep away from sources of ignition.

Do not inhale gases contained in the packaging.

Observe general hygiene measures for handling chemicals.

Do not heat the product to temperatures above 300°C.

### **7.2 Conditions for safe storage and taking into consideration incompatibilities**

Special storage conditions: Store in a cool, dry and well ventilated place. Do not store in passageways and staircases. Keep clear from sources of ignition. The product is combustible. Do not store together with strong acids, strong bases and oxidation agents. Protect from exposure to direct sunlight. Keep product packaging well sealed until use. Carefully close containers again tightly after initial opening.

Storage class according to TRGS 510: (11) combustible solids.

Observe the usual measures of preventive fire-fighting.

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### 7.3 Specific final applications

Recommendations: not available

Specific solutions for the industrial sector: not available

Remarks: Do not stack container packages on top of one another without securing them.

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## SECTION 8: Limitation and monitoring of exposure/personal protective equipment

### 8.1 Parameters to be monitored

Occupational exposure limit values:

Material	CAS-no.	Limit value (8h ppm)	Limit value (8h mg/m <sup>3</sup> )	Short term value (15 min. ppm)	Short term value (15 min. mg/m <sup>3</sup> )	Note
Dust (general dust limit value)	--	--	10			Inhalable dust
Dust limit value	--	--	4			Alveolar dust

DNEL/PNEC: no values available

### 8.2 Limitation and monitoring of exposure

A good normal ventilation of the work place should be sufficient to limit workers' exposure with regard to air pollutants. During machining good ventilation or extraction systems at the processing machines are required.

#### Personal protective equipment

If recommended uses and applications are adhered to, no personal protective equipment is required.

Eye/face protection	Protective goggles with closed sides (EN 166)
Skin protection	Impervious gloves. Gloves made of plastic or synthetic rubber. If heated material is handled, use heat-insulating gloves EN407 (Heat)
Breathing protection	If occupational exposure limit values will probably be exceeded an use breathing protection mask with particle filter (EN143).

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## SECTION 9: Physical and chemical properties

### 9.1 Information on the basic physical and chemical properties

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Appearance:	plastic moulded part/solid
Colour:	grey
Odour:	weak, product-specific
Odour threshold:	not determined (not required with regard to safety and application)
pH value:	not applicable
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not applicable, product decomposes
Flashpoint:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gaseous):	not determined
Upper/lower flammability or explosion limits	not applicable
Vapour pressure:	not applicable
Vapour density:	not applicable
Relative density:	not determined
Solubility(ies):	insoluble in water
Distribution coefficient: n-octanol/water:	not applicable
Self-ignition temperature:	not determined
Decomposition temperature:	as of 450°C
Viscosity:	not applicable
Explosive properties:	not applicable
Oxidizing properties:	not applicable

## 9.2 Additional information

For further technical information on the solid please refer to the respective material data sheet/product information sheet.

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## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

When the regulations/notes on the storage and handling are observed, this material is not deemed to have any dangerous reactions.

### 10.2 Chemical stability

The product is chemically stable during appropriate use. Do not heat the product to temperatures above [refer to point 7.1].

### 10.3 Possible hazardous reactions

Under normal storage conditions and appropriate use there will be no hazardous reactions.

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#### **10.4 Conditions to be avoided**

The thermal decomposition of the product starts as of 450°C.

#### **10.5 Incompatible materials**

Avoid the contact with strong acids, strong bases, strong oxidizing agents and concentrated sulphuric acid.

#### **10.6 Dangerous decomposition products**

No dangerous decomposition products are known if product is appropriately used, stored and handled and when maximum operating temperatures are adhered to (see Section 7.1). Dangerous combustion products are listed in Section 5.

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### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

During proper handling and appropriate use the product does not have any acute detrimental health effects according to our current knowledge.

During processing good ventilation or extraction systems at the processing machines are required.

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### **SECTION 12: Environmentally relevant information**

#### **12.1 Toxicity**

Conclusion / Summary: not available

#### **12.2 Persistence and degradation**

Conclusion / Summary: not/poorly degradable

#### **12.3 Bioaccumulation potential**

No bio-availability

#### **12.4 Mobility in the soil**

Distribution coefficient soil/water (Koc): not applicable

Mobility: not applicable

#### **12.5 Results of PBT and vPvB assessment**

PBT: not applicable

vPvB: not applicable

#### **12.6 Other detrimental effects**

No special effects or dangers are known. However, do not allow to penetrate into the environment, ground waters, surface waters or the sewage system.

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### **SECTION 13: Disposal information**

#### **13.1 Procedures of waste disposal**

The product can be incinerated in an approved plant in compliance with technical guidelines or stored together with domestic waste in an appropriate landfill site.

Waste name: plastic waste.

EC waste key no.: The waste keys are linked to the intended uses of this product.

Contaminated packaging: Packaging that cannot be cleaned has to be disposed of in the same way as the product itself.

General: Prevent the release into the environment. Dispose of in compliance with regional respectively national safety instructions.

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### **SECTION 14: Transport information**

Not deemed to be hazardous goods according to the transport regulations

#### **14.1 UN number**

Not applicable

#### **14.2 Appropriate UN shipping name**

Not applicable

#### **14.3 Transport hazard class**

Not applicable

#### **14.4 Packaging group**

Not applicable

#### **14.5 Environmental risks**

None known

#### **14.6 Special precautions for the user**

None known

#### **14.7 Bulk transport according to Annex II of the MARPOL – Convention and according to the IBC Code**

Not applicable

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### **SECTION 15: Legal regulations**

#### **15.1 Regulations on safety, health and the protection of the environment/ specific legal regulations for the product or mixture**



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This product does not require labelling according to EU guidelines.

Water hazard class: not hazardous to water

### **15.2 Chemical safety assessment**

No chemical safety assessment is necessary.

The product is not classified as dangerous.

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### **SECTION 16: Other information**

There is no legal requirement to provide a Safety Data Sheet for this product and it is only provided by us for customer service reasons.

The information provided above in this Safety Data Sheet is based on the current state of our knowledge and experience and describes the product with regard to safety requirements. The information does not provide any analysis certificate or technical data sheet respectively a description of the quality guarantee of the goods. An agreement or quality agreement or the suitability of the product for a concrete intended use purpose may not be derived from the intended use listed in the safety data sheet. The recipient of the product is responsible for compliance with existing laws and regulations and possible property rights.

The product is not classified as hazardous so that no obligation to supply a safety data sheet according to REACH Art. 31, Section 1, exists. The presented product information was created in its layout according to REACH, Annex II, in order to meet the information requirements according to REACH Art. 31 Sect. 3, Art.32 and Art. 33 also for products, where no accompanying safety data sheet is required upon delivery of the product.

This document is not subject to a change service.

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This is to certify that the above translation from German into English is complete and correct.

Sabine Bartsch  
Königswinter, 16.9.2019

Certified translator for the Higher Regional Court of Cologne/Germany