

### 1. Information on the finished product

- **Product designation:**  
ejotherm STR H A2 (anchor washer)
- **Provider of information:**  
EJOT Baubefestigungen GmbH, In der Stockwiese 35, 57334 Bad Laasphe, Germany  
Tel.: +49/2752/908-0, Fax: +49/2752/908-731

### 2. Information on the raw material

- **Designation of the plastic:**  
Glass fibre reinforced polyamide
- **Application:**  
Thermoplastic / polymer material in the form of cylindrical granulate for injection moulding applications.

### 3. Possible hazards

- **Hazard designation:** N/A.
- **Special hazard information for human beings and the environment:** N/A.
- **Additional information:** None

### 4. First aid measures

- **General information:** No special measures required.
- **In case of inhalation:** Provide medical treatment in case of discomfort.
- **In case of skin contact:** In case of contact with the melted product, immediately cool off with cold water. Do not peel off hardened product from the skin.
- **In case of contact with the eyes:** Rinse out the eyes with the lid opened for several minutes under running water.

### 5. Measures for fire fighting

- **Suitable extinguishing agent:**  
Fire extinguishing measures must be implemented to suit the environment.  
Water, water spray jet, water with gel additive, foam.
- **Specific hazard from the substance, its combustion products or generated gases:**  
Under certain fire conditions, traces of toxic substances cannot be ruled out, e.g.:  
Carbon monoxide (CO)  
Nitric oxide (NO<sub>x</sub>)  
Hydrogen cyanide (HCN)
- **Special safety clothing and equipment:** No special measures required.
- **Further information**  
Residue from fire and contaminated extinguishing water must be disposed of as per the regulations of the respective authorities.

### 6. Measures in case of unintentional release

- **Personnel-related precautionary measures:**  
Not required.  
Specific risk of slipping as a result of spilled product.
- **Environmental protection measures:** No special measures required.
- **Procedure for cleaning/absorption/collection:** Allow to set, collect mechanically.
- **Additional instructions:** No hazardous substances are released.

## 7. Handling and storage

- **Handling:**
- **Instructions on safe handling:**  
No special measures required.  
Provide suitable extraction at processing machines.
- **Information on fire safety and explosion protection:** No special measures required.
- **Storage:**
- **Requirement for storage rooms and containers:** No special requirements.
- **Instructions for joint storage:** Not required.
- **Further information on storage conditions:** None.

## 8. Explosion limitation and personal safety clothing and equipment

- **Additional instructions for the design of technical systems:** No further information; see point 7.
- **Components with limit values related to the work station which require monitoring:**  
When using processing procedures which generate dust, the dust limit values must be adhered to.

<b>105-60-2 epsilon-Caprolactam (&lt; 1.0%)</b>	
MAK	5 E mg/m <sup>3</sup> (Vapour and dust); Y; DFG

- **Additional instructions:** The valid lists used for compilation serve as the basis.
- **Personal safety clothing and equipment:**
- **General safety and hygiene measures:** Avoid skin contact with the molten material.
- **Respiratory protection:** Not required if the room is well ventilated.
- **Hand protection:** Not required.
- **Glove material**  
The selection of a suitable glove does not just depend on the material but also on further quality properties and is different from manufacturer to manufacturer.
- **Penetration time of the glove material:** N/A.
- **Eye protection:** Not required.

## 9. Physical-chemical properties

- **Additional instructions for the design of technical systems:** No further information; see point 7.
- **Components with limit values related to the work station which require monitoring:**  
When using processing procedures which generate dust, the dust limit values must be adhered to.

<b>General information</b>	
<b>Shape:</b>	Solid (granulate)
<b>Colour:</b>	Off-white
<b>Smell:</b>	Almost odourless
<b>Condition change</b>	
<b>Melting point/melting range:</b>	160-240 °C
<b>Boiling point/boiling range:</b>	Not determined.
<b>Flash point:</b>	Not applicable.
<b>Spontaneous combustibility:</b>	The product is not spontaneously combustible.
<b>Risk of explosion:</b>	The product is not potentially explosive.
<b>Density:</b>	> 1.4
<b>Solubility in / miscibility with Water:</b>	Insoluble.

## 10. Stability and reactivity

- **Thermal decomposition / conditions which must be avoided:**  
No decomposition when used properly.  
Processing temperature is above: 220 °C
- **Hazardous reactions:** No know hazardous reactions.
- **Hazardous decomposition products:** No know hazardous decomposition products.

## 11. Toxicology information

- **Acute toxicity:**
- **Primary irritation:**
- **to the skin:** No irritation.
- **to the eye:** No irritation.
- **Sensitisation:** No sensitisation effect known.
- **Additional toxicological information:**  
The product is not subject to compulsory marking based on the calculation method of the general classification directive of the EC for preparations (latest version).  
In our experience and according to the information available to use, if handled properly and used in accordance with the proper use, the product has no adverse effect on health.

## 12. Ecology information

- **Other information:** The product is biologically persistent.
- **Further ecological information:**
- **Contains the following heavy metals as per EC Directive no. 76/464 EEC:** None
- **General information:**  
Water pollutant class: nwg (not water-polluting) as per VwVwS Annex 1 / no. 766

## 13. Instructions for disposal

- **Product:**
- **Recommendation:**  
For recycling requirements contact waste exchanges.  
For recycling requirements contact the manufacturer.  
Can be re-used after treatment.  
Taking into account the necessary technical regulations and after consultation with the disposing party and the respective authority, can be deposited with the domestic waste.  
Small quantities can be dumped together with the domestic waste.  
Can be re-used without treatment.
- **European Waste Catalogue (EAK, EWC, CED)**  
070213 Plastic waste (from MFSU of plastics)  
120105 Plastic chippings (from shaping + surface treatment)  
160119 Plastic (from used vehicles)  
200139 Plastics (separately collected fraction of municipal waste)  
Possibly also 191204, 170203, 020104  
The exact number must be determined.
- **Non-cleaned packaging:** See recommendation
- **Recommendation:**  
The packaging can be re-used after cleaning or utilised as a material.
- **Recommended cleaning agent:** Water, with cleaning agent additive as necessary.

#### 14. Information on transportation

Road transport ADR/RID and GGVS/GGVE (cross-border/domestic):  
ADR/RID/ADNR GGVS/E class: -

Sea freight IMDG/GGVSee:  
IMDG/GGVSee class: -  
Marine pollutant: No

Air freight ICAO-TI and IATA-DGR:  
ICAO/IATA class: -

#### 15. Legal regulations

- **Regulations on safety, health and environmental protection/specific legal regulations for the substance or the mixture**  
Water pollutant class (Annex 1 of VwVwS (Germany)): Not water-polluting.
- **Substance safety assessment**  
Substance safety assessment not required  
Product is not classified as hazardous.  
A safety data sheet for this product is not required by law and is only issued by us as a courtesy for our customer.

### 1. Information on the finished product

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ejotherm STR H A2 (anchor sleeve)
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### 2. Information on the raw material

- **Designation of the substance or preparation:**  
Product: Metal mechanical fasteners
- **General description of the components and the corresponding concentration:**  
Fasteners are manufactured from iron, non-ferrous metals and alloys thereof. The materials are subject to national/international standards and are not classified as hazardous substances as per the German hazardous substance ordinance (GefStoffVO)
- **Surface protection:**
  - **Surface protection generated by heat treatment**  
Only quenchant with for which there is a SDS are used. Refer to these SDS for details.
  - **Other anti-corrosion coatings**  
Corrosion protection coatings are applied in compliance with the legal regulation on prohibition of hazardous substances. The contained substances and their proportions are recorded in the international electronic material data system (IMDS). The respective SDS apply for the contained substances.

### 3. Possible hazards

- **Hazard designation:** N/A.
- **Special hazard information for human beings and the environment:** N/A.

### 4. First aid measures

- Not applicable

### 5. Measures for fire fighting

- Not applicable

### 6. Measures in case of unintentional release

- **Personnel-related precautionary measures:**  
Not required.  
For oiled or greased fasteners the SDS for the product used in each case is authoritative.
- **Environmental protection measures:**  
as above
- **Procedure for cleaning:**  
as above

### 7. Handling and storage

- **Handling:**  
Hand protection is recommended for oiled and greased fasteners
- **Storage:**  
Protect from moisture

## 8. Explosion limitation and personal safety clothing and equipment

- **Exposure limit values:** Not applicable
- **Limitation and monitoring of exposure in the work station:**  
The product does not contain any relevant quantities of substances with limit values which have to be monitored in relation to work stations
- **Respiratory protection:** N/A
- **Hand protection:** Hand protection recommended for oiled fasteners
- **Eye protection:** N/A
- **Body protection:** N/A
- **Limitation and monitoring of environmental exposure:** N/A

## 9. Physical and chemical properties

General information	
<b>Shape:</b>	Mostly cylindrical
<b>Colour:</b>	Metallic, shiny
<b>Smell:</b>	Mostly none, however oiled fasteners typically smell of mineral oil
Important information on health and safety and environmental protection	
<b>pH value of the substance:</b>	N/A
<b>Boiling point/boiling range</b>	Not applicable
<b>Flammability:</b>	N/A
<b>Risk of explosion:</b>	None
<b>Oxidising properties</b>	None
<b>Vapour pressure:</b>	N/A
<b>Relative density:</b>	N/A
<b>Solubility:</b> - Water solubility - Grease solubility	N/A
<b>Distribution coefficient:</b>	N/A
<b>Viscosity:</b>	N/A
<b>Vapour density:</b> <b>Evaporation speed</b>	N/A
<b>Other information:</b>	None

## 10. Stability and reactivity

- Not applicable
- **Hazardous decomposition products:** Not applicable

## 11. Toxicology information

To our knowledge, fasteners are toxicologically harmless.  
For oiled fasteners the SDS for the product used in each case is authoritative.

## 12. Ecology information

For oiled fasteners the SDS for the product used in each case is authoritative.

### 13. Instructions for disposal

- **Product:**
- **Recommendation:**  
Recycle
- **Non-cleaned packaging:**
- **Recommendation:**  
Disposal as per the regulations of the respective authorities

### 14. Information on transportation

Road transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS class:

Seeschiffstransport IMDG/GGVSee

IMDG/GGVSee class:

Air freight ICAO-TI and IATA-DGR

ICAO/IATA class:

Not classed as hazardous material according to the above ordinances as per the ordinance on hazardous materials

### 15. Legal regulations

- **Regulations on safety, health and environmental protection/specific legal regulations for the substance or the mixture**  
Water pollutant class (Annex 1 of VwVwS (Germany)): Not water-polluting.
- **Substance safety assessment**  
Substance safety assessment not required  
Product is not classified as hazardous.  
A safety data sheet for this product is not required by law and is only issued by us as a courtesy for our customer.