

Safety data sheet

according to 1907/2006/EC, Article 31; (EU) 2015/830

Printing date 24.06.2020

Version number 33

Revision: 24.06.2020

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

- **1.1 Product identifier**
 - Trade name **Jowatherm 286.60**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the mixture**
 - Adhesives
 - Additive
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 - Jowat SE
 - Ernst-Hilker-Str. 10 - 14; D - 32758 Detmold
 - Fon +49 (0)5231 749 0
 - e-mail: info@jowat.de
 - www.jowat.de
 - **Department issuing data specification sheet:**
 - Environmental management
 - Tel. +49 5231 749 -218 / -211 / -5460 / -5374
 - e-mail: umweltmanagement@jowat.de
 - **Department providing the information:**
 - Jowat UK Ltd.
 - Lymedale Business Centre
 - Lymedale Business Park
 - Hooters Hall Road
 - Newcastle-under-Lyme
 - Staffordshire
 - ST5 9QF
 - Phone: +44 1782 565265
 - E-mail: nick.orton@jowat.de
- **1.4 Emergency telephone number: -**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** not applicable
 - **Hazard pictograms** not applicable
 - **Signal word** not applicable
 - **Hazard statements** not applicable
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
 - **Description:**
 - Hot melt adhesive
 - Ethylene vinyl acetate copolymer
 - Vinyl resin

· **Dangerous components:**

CAS: 115-77-5	pentaerythritol	1-<2.5%
EINECS: 204-104-9	substance with a Community workplace exposure	
registration number: 01-2119473985-20	limit	

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31; (EU) 2015/830

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Revision: 24.06.2020

Trade name Jowatherm 286.60

(Contd. from page 1)

- **SVHC** Not applicable.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **General information** No special measures required.
 - **After inhalation** Supply fresh air; consult physician in case of symptoms.
 - **After skin contact**

The product does not irritate the skin.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Seek medical treatment.
 - **After eye contact** Rinse opened eye for several minutes under running water.
 - **After swallowing** In case of persistent symptoms consult physician.
- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
 - **Protective equipment:** Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**

Collect mechanically.
Allow to solidify. Collect mechanically.
- **6.4 Reference to other sections**

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
No dangerous materials are released.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed containers.
Ensure that suitable extractors are available on processing machines. In the context of the risk assessment, it is necessary to evaluate whether and to what extent protective measures are required. If necessary, a workplace measurement has to be carried out.

 - **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
 - **Storage class** 11

(Contd. on page 3)

Safety data sheet

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Version number 33

Revision: 24.06.2020

Trade name Jowatherm 286.60

(Contd. from page 2)

- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· 8.1 Control parameters

- **Components with critical values that require monitoring in the workplace:**

115-77-5 pentaerythritol

WEL	Short-term value: 20* mg/m ³ Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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- **Regulatory information** WEL: EH40/2020

- **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- **Additional information about design of technical systems:** No further data; see item 7.

· Personal protective equipment

· General protective and hygienic measures

- Standard precautionary measures for handling chemicals are to be observed.
- Wash hands during breaks and at the end of work.
- Vacuum clean contaminated clothing. Do not blow or brush off contamination.
- Avoid skin contact with the liquefied material.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:** Heat resistant gloves

· Material of gloves

- Leather gloves
- Strong gloves

- **Penetration time of glove material** No special requirements.

- **Eye protection:** Not required.

* SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Solid.
- **Colour:** According to product specification
- **Smell:** Characteristic
- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

· Change in condition

- **Melting point/freezing point:** Not determined
- **Initial boiling point and boiling range:** Not determined

- **Flash point:** >200 °C

- **Inflammability (solid, gaseous)** Product is not inflammable.

- **Ignition temperature:** 298 °C

- **Decomposition temperature:** > 250 °C

- **Spontaneous combustion:** Product does not undergo spontaneous combustion.

- **Explosive properties:** Product is not explosive.

· Critical values for explosion:

- **Lower:** Not determined.
- **Upper:** Not determined.

(Contd. on page 4)

Safety data sheet

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Printing date 24.06.2020

Version number 33

Revision: 24.06.2020

Trade name Jowatherm 286.60

(Contd. from page 3)

· Vapour pressure at 20 °C:	<0 hPa < 0,01 hPa
· Density at 20 °C	1.3 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· Water:	Unsoluble
· distribution ratio (n-octanol/water):	Not determined.
· Viscosity:	
· dynamic:	Not applicable.
· kinematic:	Not applicable.
· Solvent content:	
· Solid content:	100.0 %
· 9.2 Other information	No further relevant information available.
· VOC - Volatile Organic Compounds	
· Switzerland	0.00 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point
No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide
Inflammable gases/vapours
Carbon monoxide and carbon dioxide
Danger of toxic pyrolysis products
Ethanoic acid

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

115-77-5 pentaerythritol

Oral	LD50 oral	5,500 mg/kg (rat)
Dermal	LD50 dermal	10,000 mg/kg (rabbit)

- **Primary irritant effect:**
 - **to the skin:** Based on available data, the classification criteria are not met.
 - **to the eye:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31; (EU) 2015/830

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(Contd. from page 4)

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

115-77-5 pentaerythritol

LC0	>5,000 mg/l (orfe (ide))
EC50 / 24 h	38,900 mg/l (water flea)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**

· Behaviour in sewage plants:

115-77-5 pentaerythritol

EC10 / 16 h	18,200 mg/l (pseudomonas putida)
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- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow the product to reach ground water, open water or the sewer system, undiluted or in large quantities.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Smaller quantities can be disposed with household garbage.
Can be reused without processing.

· European waste catalogue

08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging

· Uncleaned containers/packaging material:

· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be reused.
Non contaminated packagings can be used for recycling.
Packaging with cured adhesive residues can be recycled.
Packaging with cured adhesive residues can be treated as household waste.

SECTION 14: Transport information

· 14.1 UN-Number

- **ADR, ADN, IMDG, IATA** not applicable

· 14.2 UN proper shipping name

- **ADR, ADN, IMDG, IATA** not applicable

(Contd. on page 6)

Safety data sheet

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(Contd. from page 5)

· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	not applicable
· 14.4 Packing group	
· ADR, IMDG, IATA	not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	not applicable

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended, and observed as necessary.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

- *** Data modified in comparison to the previous version.**