



Safety Data Sheet according to WHS Regulations

Printing date 08.05.2018

Version number 32

Revision: 16.01.2018

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

* 1 Identification

- **Product identifier**
 - Trade name JOWATHERM 286.60
 - 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
- **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; Fax +49 (0)5231 749 236
e-mail: info@jowat.de
www.jowat.de
 - **Department issuing data specification sheet:**
Environmental management
Tel. +49 5231 749 -218 / -211 / -270
e-mail: umweltmanagement@jowat.de
 - **Department providing the information:**
Jowat Universal Adhesives Pty. Ltd.
2/12 Kerr Road
Ingleburn, NSW 2565
Tel.: +612 9605 3477
Fax: +612 9605 8477
Mobil: +61 435 093524
E-Mail: shane.devereaux@jowatpacific.com
 - **Emergency telephone number:** -

2 Hazard(s) Identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonised System (GHS).
- **Label elements**
 - GHS label elements not applicable
 - Hazard pictograms not applicable
 - Signal word not applicable
 - Hazard statements not applicable
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - PBT: Not applicable.
 - vPvB: Not applicable.

* 3 Composition and Information on Ingredients

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

· Dangerous components:		
7727-43-7	barium sulphate, natural	5-<10%
115-77-5	pentaerythritol	1-<2.5%

- **SVHC** Not applicable.

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4 First Aid Measures

- **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.
- **Information for physician**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
 - **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **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.
- **Advice for firefighters**
 - **Protective equipment:** Do not inhale explosion gases or combustion gases.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Collect mechanically.
Allow to solidify. Collect mechanically.
- **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.

7 Handling and Storage

- **Handling**
 - **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.
- **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**

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

8 Exposure controls and personal protection

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

Components with critical values that require monitoring in the workplace:	
7727-43-7 barium sulphate, natural	
WES	Long-term value: 10 mg/m ³
115-77-5 pentaerythritol	
WES	Long-term value: 10 mg/m ³

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

- 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.

* 9 Physical and Chemical Properties

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)	Not determined.
Ignition temperature:	298 °C
Decomposition temperature:	> 220 °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.
Vapour pressure at 20 °C:	<0 hPa

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· 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 %
· Other information	No further relevant information available.
· VOC - Volatile Organic Compounds	
· Switzerland	0.00 %

10 Stability and Reactivity

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

*11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values that are relevant for classification:		
7727-43-7 barium sulphate, natural		
Oral	LD50 oral	15,000 mg/kg (rat)
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:** No irritant effect.
 - **to the eye:** No irritant effect.
- **Respiratory or skin sensitisation** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) as issued in the latest version:

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

*12 Ecological Information

· Toxicity

· Aquatic toxicity:

115-77-5 pentaerythritol

LC0 >5,000 mg/l (orfe (ide))

EC50 / 24 h 38,900 mg/l (water flea)

· Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

· Bioaccumulative potential No further relevant information available.

· 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)

· 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.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation Smaller quantities can be disposed with household garbage.

· Uncleaned containers/packaging material:

· Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

· UN-Number

· ADG, ADN, IMDG, IATA not applicable

· UN proper shipping name

· ADG, ADN, IMDG, IATA not applicable

· Transport hazard class(es)

· ADG, ADN, IMDG, IATA

· Class not applicable

· Packing group

· ADG, IMDG, IATA not applicable

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user

Not applicable.

· 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.

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· UN "Model Regulation":	not applicable
· Transport of dangerous goods: National Regulations	Not a Dangerous Good according to the Australian Dangerous Goods Code (ADG 7) for transport by Road and Rail.

*15 Regulatory information

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

· Australian Inventory of Chemical Substances (AICS) (Substances not listed)
71302-83-5 Hydrocarbons, C9-unsatd., polymd.
· Standard for the Uniform Scheduling of Medicines and Poisons
None of the ingredients is listed.

- National regulations

- Other regulations, limitations and prohibitive regulations

Occupational Safety and Health regulations 1996 (especially part 5) (Update 01/2013)

AS / NZS 4745:2012 Code of practice for handling combustible dusts

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

*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

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.