

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/27/2019

Version number 1

Reviewed on 11/27/2019

### \* 1 Identification

- **Product identifier**
  - **Trade name:** Jowat-Highterm 225.00
  - **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Jowat Corporation  
6058 Lois Lane  
Archdale, NC 27263  
Phone: 336-434-9000  
Fax: 336-434-9019  
info@jowat.com
  - **Department issuing SDS:**  
Environmental management  
Tel. +49 5231 749 -218 / -211 / -270  
e-mail: umweltmanagement@jowat.de
  - **Information provided by department:**  
Jowat Corporation  
5608 Uwharrie Rd.  
Archdale, NC 27263  
P.O.Box 1368  
High Point, NC 27261  
Tel.: +1 336 434-9000  
Fax: +1 336 434-9019  
E-Mail: info@jowat.com
  - **Emergency telephone number:**  
1 800 424 9300 (Chemtrec 24 hours service)  
1 800 424 9300 (Chemtrec 24 hours service)

### \* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- 
- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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- P280 Wear protective gloves.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P363 Wash contaminated clothing before reuse.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system**

- **NFPA ratings (scale 0-4)**



Health = 0  
 Fire = 1  
 Reactivity = 0

- **HMIS ratings (scale 0-4)**



Health = 0  
 Flammability = 1  
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
    - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Hot melt adhesive  
 Polypropylene modification  
 polyolefine

- **Dangerous components:**

96-69-5	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	<0.5%
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- **Additional information**

In case any risk phrases are listed, please refer to paragraph 16 for the exact wording.

### 4 First-aid measures

- **Description of first aid measures**

- **After inhalation**

Supply fresh air and call in physician to be on the safe side.  
 In case of unconsciousness place patient in stable side position for transportation.  
 Supply fresh air; consult physician in case of problems.

- **After skin contact**

After contact with the molten product, cool rapidly with cold water.  
 Do not peel solidified product from the skin.  
 Seek medical treatment.

- **After eye contact** Rinse opened eye for several minutes under running water.

- **After swallowing** If symptoms persist consult physician.

- **Information for physician**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
  - **For safety reasons unsuitable extinguishing agents** Water in a full jet.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
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**  
Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Pick up mechanically.  
Allow to solidify. Pick up mechanically.  
Ensure adequate ventilation.
- **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 disposal information.

**7 Handling and storage**

- **Handling**
  - **Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Ensure that suitable extractors/ventilation systems are available on processing machines and in the workplace. 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 storage facilities and containers:** No special requirements.
    - **Information concerning mixed product storage facilities:** Not required.
    - **Further information on storage conditions:** None.
    - **Storage class** 11
- **Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/personal protection

#### · Control parameters

##### · Components with limit values that require monitoring in the workplace:

#### 96-69-5 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV Long-term value: 1 mg/m<sup>3</sup>  
as inhalable fraction

#### · Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (ACGIH)

#### · Additional information:

The lists that were valid at the date of compilation of this SDS were used as basis.

#### · Exposure controls

##### · Personal protective equipment

##### · General protection and hygiene precautions

The standard precautionary measures for handling chemicals should be observed.

Keep away from food, beverages and animal feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Do not inhale gases / fumes / aerosols.

Avoid skin contact with the liquefied material.

Do not eat or drink while working.

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

##### · Protection of hands:

Heat-resistant gloves

Impervious 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.

· **Color:** According to product specification

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

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· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	undetermined
· <b>Boiling point/Boiling range:</b>	351 °C (663.8 °F)
· <b>Flash point:</b>	173 °C (343.4 °F)
· <b>Flammability (solid, gaseous)</b>	Not determined.
· <b>Ignition temperature:</b>	>300 °C (>572 °F)
· <b>Decomposition temperature:</b>	> 220 °C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>dynamic:</b>	Not applicable.
· <b>kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
· <b>Solid content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.
· <b>VOC - Volatile Organic Compounds</b>	
· <b>European Union</b>	0.00 %
· <b>Switzerland</b>	0.00 %
· <b>U.S.A (less water and less exempts)</b>	0.0 g/l / 0.00 lb/gal

### 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.

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- **Hazardous decomposition products:**

Flammable gases/vapors  
Carbon monoxide and carbon dioxide  
Danger of toxic pyrolysis products

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>96-69-5 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol</b>		
Oral	LD50 oral	2,345 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) as issued in the latest version:  
Irritant

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
Polyethylene low density		3
· <b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity**

· <b>Aquatic toxicity:</b>		
<b>96-69-5 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol</b>		
LC50 / 96 h	0.16 mg/l (rainbow trout)	
EC50 / 48 h	0.7 mg/l (water flea)	
EC50 / 72 h	126 mg/l (green algae)	

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
    - **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General remarks:** Generally not hazardous for water.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
    - **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Smaller quantities can be disposed of with household waste.

Can be reused without reprocessing.

- **Uncleaned containers/packaging materials:**

- **Recommendation:**

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.

### \*14 Transport information

· <b>UN-Number</b>	
· DOT, ADR, ADN, IMDG, IATA	Void
· <b>UN proper shipping name</b>	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
· <b>Transport hazard class(es)</b>	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· <b>Packing group</b>	
· DOT, ADR, IMDG, IATA	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### \*15 Regulatory information

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

· <b>SARA Section 355 (extremely hazardous substances)</b>
None of the ingredients is listed.
· <b>SARA Section 313 (specific toxic chemical listings)</b>
None of the ingredients is listed.
· <b>TSCA (Toxic Substances Control Act)</b>
All components have the value ACTIVE.
· <b>Hazardous Air Pollutants</b>
None of the ingredients is listed.

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#### · Proposition 65

· <b>Prop 65 - Chemicals known to cause cancer</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for females</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for males</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause developmental toxicity</b>		
None of the ingredients is listed.		
· <b>Carcinogenicity categories</b>		
· <b>EPA (Environmental Protection Agency)</b>		
None of the ingredients is listed.		
· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
96-69-5	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	A4
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
· <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.		

### 16 Other information

These data are based on our present state of information. 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.

· **Date of preparation / last revision** 11/27/2019 / -

#### · **Abbreviations and acronyms:**

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation – Category 1

· **\* Data in paragraphs with asterisk are revised in comparison to the previous version.**