

Safety data sheet

According to 91/155 EC, 2001/58/EC

Printing date 19.10.2010

Revision: 19.10.2010

 Hazardous according to criteria of Australian Safety and Compensation Council

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

- **Product details**

- Trade name Jowatherm Reaktant 607.30

- **Article number:** 60730

- **Application of the substance / the preparation** Adhesives

- **Manufacturer/Supplier:**

JOWAT AG

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- **Department providing the information:**

Umweltmanagement

Tel.: +49 5231 749 211

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- **Emergency information:**

InfraServ Hoechst - Gefahrenabwehrmeldezentrale

D - 65926 Frankfurt

Fon: +49 (0)69-305-6418

2 Composition/information on ingredients

- **Chemical characterization**

- **Description:**

Adhesive.

(polyurethanes)

- **Dangerous components:**

26447-40-5	methylenediphenyl diisocyanate	1 - 2%
	<input checked="" type="checkbox"/> Xn R20-40-48/20; <input checked="" type="checkbox"/> Xn R42/43; <input checked="" type="checkbox"/> Xi R36/37/38 Carc. Cat. 3	

- **Additional information**

If any R-phrases (risk-phrases) are listed, please refer for the exact wording to section 16.

3 Hazards identification

- **Classification of the substance or mixture**

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R40: Limited evidence of a carcinogenic effect.

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" (Directive 1999/45/EC of the European Parliament and of the Council) in the latest valid version.

- **Classification system:**

The classification is in line with current EC lists (Council Directive 67/548/EEC). It is supplemented, however, with information from technical literature and by information furnished by supplier companies.

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· Label elements

· Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:



Xn Harmful

· Hazard-determining components of labelling:

methylenediphenyl diisocyanate

· Risk phrases:

40 Limited evidence of a carcinogenic effect.
42/43 May cause sensitisation by inhalation and skin contact.

· Safety phrases:

23 Do not breathe fumes.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

· Specific information on particular dangers for man and the environment

· Safety phrases:

23 Do not breathe fumes.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4 First aid measures

· After inhalation

Supply fresh air and contact physician for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

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

· The following symptoms may occur:

Asthma attacks

Allergic reactions

5 Firefighting measures

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **Protective equipment:** Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Safety precautions/operators or staff:** Wear protective clothing.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Dispose of contaminated material as waste according to item 13.
Collect mechanically.
Allow to solidify. Collect mechanically.
Ensure adequate ventilation.
- **Additional information:**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
 - **Information for safe handling:**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/extraction system at the workplace.
Ensure that suitable extractors are available on processing machines
 - **Information about protection against explosions and fires:** No special measures required.
- **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:**
Store under dry conditions.
Protect from humidity and keep away from water.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring in the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
 - **General protective and hygienic measures**
Standard precautionary measures for handling chemicals are to be observed.
Keep away from food, beverages and animal feed.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid skin contact with the liquefied material.
 - **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Short term filter device:
Filter P2.
Not necessary if room is well-ventilated.
 - **Protection of hands:** Heat resistant gloves

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- **Material of gloves**
Leather gloves
Strong gloves
- **Penetration time of glove material** No special requirements.
- **Eye protection:** Safety glasses recommended during refilling.

9 Physical and chemical properties

· General Information	
· Appearance:	
· Form:	Solid.
· Colour:	According to product specification
· Smell:	Characteristic
· Change in condition	
· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	> 300°C
· Flash point:	> 200°C
· Ignition temperature:	450°C
· Spontaneous combustion:	Product does not undergo spontaneous combustion.
· Danger of explosion:	Product is not explosive.
· Vapour pressure at 20°C:	0.2 hPa
· Density at 20°C	1.1 g/cm ³
· Solubility in / Miscibility with	
· Water:	Unsoluble
· Solvent content:	
· Organic solvents:	0.0 %
· Solid content:	100.0 %
· Additional information	
· VOC - Volatile Organic Compounds	
· European Community	0.00 %
· Switzerland	0.00 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
To avoid thermal decomposition do not overheat.
- **Materials to be avoided:**
- **Dangerous reactions**
Toxic fumes may be released if heated above the decomposition point
Reacts with water
Reacts with moist air
- **Dangerous products of composition:**
Nitrous vitriol gases
Isocyanate

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

26447-40-5 methylenediphenyl diisocyanate

Oral | LD50 oral | > 5000 mg/kg (rat)

Dermal | LD50 dermal | > 5000 mg/kg (rabbit)

- **Primary irritant effect:**

- **to the skin:** No irritant effect.

- **to the eye:** No irritant effect.

- **Sensitization:**

Sensitization possible by inhalation.

Sensitization possible by skin contact.

- **Additional toxicological information:**

The product shows the following dangers 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:

Harmful

Irritant

12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

26447-40-5 methylenediphenyl diisocyanate

EC50 / 24 h | > 1000 mg/l (daphnia magna)

EC50 / 3 h | > 100 mg/l (pseudomonas putida)

LC0 | > 1000 mg/l (brachydanio rerio)

- **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.

13 Disposal considerations

- **Product:**

- **Recommendation** Smaller quantities can be disposed with household garbage.

- **European waste catalogue**

08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09

- **Uncleaned containers/packaging material:**

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

14 Transport information

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

- **ADR/RID-GGVS/E Class:** Not dangerous according to the above specifications.

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· Maritime transport IMDG/GGVSea:	
· Marine pollutant:	No
· Remarks:	Not dangerous according to the above specifications.

· Air transport ICAO-TI and IATA-DGR:	
· Remarks:	Not dangerous according to the above specifications.

· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

· Standard for the Uniform Scheduling of Drugs and Poisons	
None of the ingredients is listed.	
· 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.

· **Relevant phrases**

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

· **Department issuing data specification sheet:** Environment protection department.

· **Contact:** Jan-Peter Boelcke