

Safety data sheet

according to UK REACH Regulation

Printing date 20.01.2023

Version number 34 (replaces version 33)

Revision: 20.01.2023

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

1.1 Product identifier

- Trade name **Jowatherm Reaktant 607.41**

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
- Uses advised against** Restricted to professional users.

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.co.uk

1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008**



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



Acute Tox. 4 H332 Harmful if inhaled.

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

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

diphenylmethane diisocyanate
2,4-bis[[dodecylsulfanyl)methyl]-

- **Hazard statements**

H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a doctor if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501 Dispose of contents / container to approved waste disposal or recycling in accordance with national regulations.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

- **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

- **Dangerous components:**

CAS: 26447-40-5 EINECS: 247-714-0 registration number: 01-2119457024-46 01-2119457015-45	diphenylmethane diisocyanate ----- Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	1-<5%
CAS: 110675-26-8 ELINCS: 438-600-3 registration number: 01- 0000018334-73-0000	2,4-bis[[dodecylsulfanyl)methyl]- ----- Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.5%

- **Additional information**

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

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air and contact physician for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air; consult physician in case of symptoms.

· 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.

· 4.2 Most important symptoms and effects, both acute and delayed Asthma attacks

· 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

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

· Protective equipment:

Put on breathing apparatus.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

· 6.2 Environmental precautions: No special measures required.

· 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Collect mechanically.

Allow to solidify. Collect mechanically.

Ensure adequate ventilation.

· 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.

* SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Extractors are required on all machines used for thermal processing.

Thorough dedusting.

Store in cool, dry place in tightly closed containers.

Ensure that suitable extractors are available on processing machines.

· Information about protection against explosions and fires: Keep breathing equipment ready.

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- **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:**
 - Store under dry conditions.
 - Protect from humidity and keep away from water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **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.
- **8.2 Exposure controls**
 - **Appropriate engineering controls** No further data; see item 7.
 - **Additional information about design of technical systems:** No further data; see item 7.
 - **Individual protection measures, such as 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.
 - Store protective clothing separately.
 - 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:**
 - Use breathing protection in case of insufficient ventilation (EN 149).
 - Short term filter device:
 - Filter A/B/P2.
 - Filter P2.
 - **Hand protection**
 - Heat resistant gloves
 - Impervious gloves (EN 374).
 - **Material of gloves**
 - Leather gloves
 - Strong gloves
 - **Penetration time of glove material** No special requirements.
 - **Eye/face protection** Safety glasses

* SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
 - **General Information**

· Physical state	Solid.
· Colour:	According to product specification
· Smell:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	70 °C
· Boiling point or initial boiling point and boiling range	>300 °C
· Flammability	Product is not inflammable.
· Lower and upper explosion limit	
· Lower:	Not determined.

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<ul style="list-style-type: none"> · Upper: Not determined. · Flash point: >200 °C · Ignition temperature: 410 °C · Decomposition temperature: > 250 °C · pH Not applicable. · Viscosity: <ul style="list-style-type: none"> · Kinematic viscosity Not applicable. · dynamic: Not applicable. · Solubility <ul style="list-style-type: none"> · Water: Insoluble · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: <0.2 hPa < 0,01 hPa · Density and/or relative density <ul style="list-style-type: none"> · Density at 20 °C 1.36 g/cm³ · Relative density Not determined. · Vapour density Not applicable. 	
<ul style="list-style-type: none"> · 9.2 Other information <ul style="list-style-type: none"> · VOC - Volatile Organic Compounds <ul style="list-style-type: none"> · European Union 0.00 % · Switzerland 0.00 % · U.S.A (less water and less exempts) 0.0 g/l / 0.00 lb/gal · Appearance: <ul style="list-style-type: none"> · Form: Solid. · Important information on protection of health and environment, and on safety. <ul style="list-style-type: none"> · Spontaneous combustion: Product does not undergo spontaneous combustion. · Explosive properties: Product is not explosive. · Solvent content: <ul style="list-style-type: none"> · Solid content: 100.0 % · Change in condition <ul style="list-style-type: none"> · Evaporation rate Not applicable. 	
<ul style="list-style-type: none"> · Information with regard to physical hazard classes <ul style="list-style-type: none"> · Explosives not applicable · Flammable gases not applicable · Aerosols not applicable · Oxidising gases not applicable · Gases under pressure not applicable · Flammable liquids not applicable · Flammable solids not applicable · Self-reactive substances and mixtures not applicable · Pyrophoric liquids not applicable · Pyrophoric solids not applicable · Self-heating substances and mixtures not applicable · Substances and mixtures, which emit flammable gases in contact with water not applicable · Oxidising liquids not applicable · Oxidising solids not applicable · Organic peroxides not applicable · Corrosive to metals not applicable · Desensitised explosives not applicable 	

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

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- **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
Reacts with water
Reacts with moist air
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Nitrous vitriol gases
Hydrogen cyanide (prussic acid)
Isocyanate
Inflammable gases/vapours
Carbon monoxide and carbon dioxide
Danger of toxic pyrolysis products
Nitrogen oxides (NOx)

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - **Acute toxicity** Harmful if inhaled.

· LD/LC50 values that are relevant for classification:

Inhalative	LC50 / 4 h	12 mg/l (rat)
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26447-40-5 diphenylmethane diisocyanate

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

- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **Carcinogenicity** Suspected of causing cancer.
- **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

* SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

26447-40-5 diphenylmethane diisocyanate

LC0	>1,000 mg/l (zebrafish)
EC50 / 24 h	>1,000 mg/l (water flea)
EC50 / 3 h	>100 mg/l (pseudomonas putida)

110675-26-8 2,4-bis[[dodecylsulfanyl)methyl]-

LC50 / 96 h	500 mg/l (orfe (ide))
EC50	>100 mg/l (green algae)
IC50 / 48 h	>100 mg/l (activated sludge)

- **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.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation** Hand over to disposers of hazardous waste.

- **Uncleaned containers/packaging material:**

- **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.

SECTION 14: Transport information

- **14.1 UN number or ID number**

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

- **14.2 UN proper shipping name**

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

- **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 Maritime transport in bulk according to IMO instruments**

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**

No further relevant information available.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.

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- **Relevant phrases**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- EUH204 Contains isocyanates. May produce an allergic reaction.

- **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 relatif au transport international 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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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Annex: Exposure scenario 1

- **Process category**
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
 - PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** Customary application according to section 1.
 - **Duration and frequency** 8hrs (full working shift).
- **Physical parameters**
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
 - **Concentration of the substance in the mixture** The substance is main component.
 - **Used amount per time or activity** 33333 tons per day
- **Other operational conditions** Observe the standard safety regulations when handling chemicals
 - **Other operational conditions affecting environmental exposure**
The product must not get in contact with soil, surface water and ground water before complete hardening.
Observe section 6 of the Safety Data Sheet (Accidental release measures).
High temperatures promote emission.
 - **Other operational conditions affecting worker exposure**
Avoid long-term or repeated skin contact.
Avoid contact with the skin and eyes.
Respiratory protection is required in work areas with inadequate ventilation and during spraying application.
Ensure adequate ventilation, especially in closed rooms.
Avoid contact with eyes.
Avoid contact with the skin.
Avoid breathing particles.
 - **Other operational conditions affecting consumer exposure** No special measures required.
 - **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
 - **Worker protection**
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
 - **Organisational protective measures** Provide Internal Plant Instruction.
 - **Technical protective measures**
Ensure that suitable extractors are available on processing machines.
 - **Personal protective measures**
Use breathing protection in case of insufficient ventilation (EN 149).
Use breathing protection in case of insufficient ventilation (EN 14387).
Filter A/B/P2.
In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).
Heat resistant gloves
Impervious gloves (EN 374).
 - **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
 - **Air** No special measures required.
 - **Water** Do not allow to reach sewage system.
 - **Soil** No special measures required.
 - **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures** Ensure that waste is collected and contained.
 - **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Waste type**
 - Partially emptied and uncleaned packaging
 - Solid product residues
- **Exposure estimation**
 - **Worker (oral)** No significant oral exposure
 - **Worker (dermal)** No significant dermal exposure
 - **Worker (inhalation)** The calculated value is smaller than the DNEL.
 - **Environment** The calculated value is smaller than the PNEC.
 - **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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Annex: Exposure scenario 2

- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Process category**
PROC11 Non industrial spraying
PROC14 Tableting, compression, extrusion, pelletisation, granulation
PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
- **Environmental release category**
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** Customary application according to section 1.
 - **Duration and frequency** 8hrs (full working shift).
 - **Worker** 8hrs (full working shift).
- **Physical parameters**
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
 - **Physical state** Solid.
 - **Concentration of the substance in the mixture** The substance is main component.
 - **Used amount per time or activity** 8000 kg per day
- **Other operational conditions** Observe the standard safety regulations when handling chemicals
 - **Other operational conditions affecting environmental exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
The product must not get in contact with soil, surface water and ground water before complete hardening.
High temperatures promote emission.
 - **Other operational conditions affecting worker exposure**
Indoor application.
Outdoor application.
Avoid contact with eyes.
Avoid contact with the skin.
Avoid long-term or repeated skin contact.
Avoid breathing particles.
 - **Other operational conditions affecting consumer exposure** Not required.
 - **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
 - **Worker protection**
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
 - **Organisational protective measures** Provide Internal Plant Instruction.
 - **Technical protective measures**
Ensure that suitable extractors are available on processing machines.
 - **Personal protective measures**
Use breathing protection in case of insufficient ventilation (EN 149).
Filter A/B/P2.
In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).
Heat resistant gloves
Impervious gloves (EN 374).
 - **Measures for consumer protection** Ensure adequate labelling.
 - **Environmental protection measures** No special measures required.
 - **Air** No special measures required.
 - **Water** Do not allow to reach sewage system.
 - **Soil** No special measures required.

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- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste type**
 - Solid product residues
 - Partially emptied and uncleaned packaging
- **Exposure estimation**
 - **Worker (oral)** No significant oral exposure
 - **Worker (inhalation)** The calculated value is smaller than the DNEL.
 - **Environment** The calculated value is smaller than the PNEC.
 - **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.