

Safety Data Sheet

according to HPR, Schedule 1

Printing date 03/24/2025

Version number 1

Revision: 03/24/2025

1 Identification

- **Product identifier**
 - Trade name **Jowatherm® PUR 608.00**
 - **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.
- **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 data specification sheet:**
Environmental management
Tel. +49 5231 749 -5374 / -218 / -5460 / -5592
e-mail: umweltmanagement@jowat.de
 - **Information provided by department:**
Jowat Canada Ltd.
P.O. Box 149
Mississauga, ON L5M 2B7
Tel.: +1 336 434-9154
E-Mail: canada@jowat.com
 - **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

* 2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Respiratory Sensitizer - Category 1

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

Carcinogenicity – Category 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Toxicity (Inhalation) - Category 4

H332 Harmful if inhaled.

Skin Irritation - Category 2

H315 Causes skin irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS07 GHS08

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- **Signal word** Danger
- **Hazard-determining components of labelling:**
diphenylmethane diisocyanate
- **Hazard statements**
H332 Harmful if inhaled.
H315 Causes skin irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/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.
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/Information on ingredients

- **Chemical characterisation: Mixtures**
 - **Description:**
Hot melt adhesive
Polyurethane resin

· **Dangerous components:**

CAS: 5873-54-1	diphenylmethane diisocyanate	1-<5% w/w *
RTECS: NQ 9350000		

- **SVHC** Not applicable.
- **Additional information**
If any R-phrases (risk-phrases) are listed, please refer for the exact wording to section 16.

4 First aid measures

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

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5 Firefighting measures

- **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.
- **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)
- **Advice for firefighters**
 - **Protective equipment:**
Put on breathing apparatus.
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 of contaminated material as waste according to item 13.
Collect mechanically.
Allow to solidify. Collect 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 information on disposal.

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
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.
- **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.
 - **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **Control parameters**

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

5873-54-1 diphenylmethane diisocyanate (1-<5%)

EL (Canada)	TWA: 0.005 ppm Ceiling: 0.01 ppm
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- **Regulatory information**

EL (Canada): OHS Guidelines Part 5, Table of Exposure Limits for Chemical and Biological Substances

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

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· Exposure controls

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

· 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).

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).

· Protection of hands:

Heat resistant gloves

Impervious gloves (EN 374).

· Material of gloves

Leather gloves

Strong gloves

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

· Eye protection: Safety glasses

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:** Mixture is non-soluble (in water).

· Change in condition

· **Melting point/freezing point:** Not determined

· **Initial boiling point and boiling range:** >230 °C

· **Flash point:** >200 °C

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

· **Auto-ignition temperature:** >450 °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.

· **Vapour pressure:** Not applicable.
< 0,01 hPa

· **Density at 20 °C** 1.14 g/cm³

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· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· Water:	Insoluble
· distribution ratio (n-octanol/water):	Not determined.
· Viscosity:	
· dynamic:	Not applicable.
· kinematic:	Not applicable.
· Solvent content:	
· Solid content:	100.0 %
· Other information	
· VOC - Volatile Organic Compounds	
· European Union	0.00 %
· Switzerland	0.00 %
· U.S.A (less water and less exempts)	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
Reacts with water
Reacts with moist air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **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)

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity**
 - **Primary irritant effect:**
 - **to the skin:** No irritant effect.
 - **to the eye:** No irritant effect.
 - **Respiratory or skin sensitisation**
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

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carcinogenicity – Category 2

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

5873-54-1 diphenylmethane diisocyanate

LC50 / 96 h	>1,000 mg/l (zebrafish)
LC0	>1,000 mg/l (zebrafish)
EC50 / 24 h	>1,000 mg/l (water flea) (OECD 202)
EC50 / 3 h	>100 mg/l (activated sludge) (OECD 209)
EC50 / 72 h	>1,640 mg/l (scenedesmus subspicatus) (OECD 201)

- **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.
- **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** 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.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | not applicable |
| · UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | not applicable |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | not applicable |
| · Packing group | |
| · ADR, IMDG, IATA | not applicable |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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UN "Model Regulation":	not applicable
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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **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:**

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

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)

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.**