

# Safety data sheet according to UK REACH

Printing date 11.09.2024

Version number 27 (replaces version 26)

Revision: 11.09.2024

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

- **1.1 Product identifier**
  - Trade name **Jowapur 150.51**
- **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**  
Dispersion glue  
Adhesives
- **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 -5374 / -218 / -5460 / -5592  
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



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.
  - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Toluene diisocyanate dimer  
2-methyl-2H-isothiazol-3-one  
mixture of methylchloroisothiazolinone and methylisothiazolinone

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1,2-benzisothiazol-3(2H)-one

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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.

- **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:**

aqueous polymer emulsion

Polyurethane resin

- **Dangerous components:**

CAS: 26747-90-0 EINECS: 247-953-0 registration number: 01-2120138996-40	Toluene diisocyanate dimer Skin Sens. 1A, H317; STOT SE 3, H335, EUH204	1-<2.5%
CAS: 68439-49-6 NLP: 500-212-8	Alcohols, C16-18, ethoxylated (1 - 2,5 moles ethoxylated) Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302	≥0.25-<0.5%
CAS: 2634-33-5 EINECS: 220-120-9 registration number: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<0.1%
CAS: 2682-20-4 EINECS: 220-239-6 registration number: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<0.025%
CAS: 55965-84-9 EC number: 611-341-5	mixture of methylchloroisothiazolinone and methylisothiazolinone Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.00025-<0.0025%

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### · Additional information

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

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

· **General information** Instantly remove any clothing soiled by the product.

#### · 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** Instantly wash with water and soap and rinse thoroughly.

· **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 Allergic reactions

### · 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

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

### · 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

### · 5.3 Advice for firefighters

· **Protective equipment:** 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:

Do not allow product to reach sewage system or water bodies.

Prevent from spreading (e.g. by damming-in or oil barriers).

### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

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.

No dangerous materials are released.

## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed containers.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:** No special measures required.

### · 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:**

Protect against frost.

Keep container tightly sealed.

### · 7.3 Specific end use(s) No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
  - **Components with critical values that require monitoring in 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 section 7.
  - **Additional information about design of technical systems:** No further data; see section 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.  
Do not inhale gases / fumes / aerosols.  
Do not eat or drink while working.
    - **Breathing equipment:**  
Short term filter device:  
Only when applied by spray methods, if no adequate extraction system is in place (EN 149).  
Filter A/P2  
Filter P2.  
Not necessary if room is well-ventilated.
    - **Hand protection** Impervious gloves (EN 374).
      - **Material of gloves** Plastic gloves
      - **Penetration time of glove material**  
The exact time limit until penetration has to be found out from the manufacturer of the protective gloves; please ensure that this value is not exceeded.
      - **Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories):**  
Plastic gloves
      - **For the permanent contact gloves made of the following materials are suitable:** Plastic gloves
      - **Not suitable are gloves made of the following materials:**  
Leather gloves  
Strong gloves
    - **Eye/face protection** Safety glasses recommended during refilling and spraying.

### SECTION 9: Physical and chemical properties

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

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	White
· <b>Smell:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	100 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b> <ul style="list-style-type: none"> <li>· <b>Lower:</b></li> <li>· <b>Upper:</b></li> </ul>	Not determined. Not determined.
· <b>Flash point:</b>	Not applicable
· <b>Auto-ignition temperature:</b>	>550 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20 °C</b>	8
· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>· <b>Kinematic viscosity</b></li> </ul>	Not determined.

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<ul style="list-style-type: none"> <li>· dynamic at 20 °C:</li> <li>· Solubility</li> <li>· Water:</li> <li>· Partition coefficient n-octanol/water (log value)</li> <li>· Vapour pressure at 20 °C:</li> <li>· Density and/or relative density</li> <li>· Density at 20 °C</li> <li>· Relative density</li> <li>· Vapour density</li> </ul>	<p>3,000 mPas</p> <p>Fully miscible</p> <p>Not determined.</p> <p>23 hPa</p> <p>Not determined.</p> <p>1.05 g/cm<sup>3</sup></p> <p>Not determined.</p> <p>Not determined.</p>
<ul style="list-style-type: none"> <li>· 9.2 Other information</li> <li>· VOC - Volatile Organic Compounds</li> <li>· European Union</li> <li>· Switzerland</li> <li>· U.S.A (less water and less exempts)</li> <li>· Appearance:</li> <li>· Form:</li> <li>· Important information on protection of health and environment, and on safety.</li> <li>· Spontaneous combustion:</li> <li>· Explosive properties:</li> <li>· Solvent content:</li> <li>· Organic solvents:</li> <li>· Solid content:</li> <li>· Change in condition</li> <li>· Evaporation rate</li> </ul>	<p>0.85 %</p> <p>0.71 %</p> <p>1.8 g/l / 0.02 lb/gal</p> <p>Fluid</p> <p>Product does not undergo spontaneous combustion.</p> <p>Product is not explosive.</p> <p>0.8 %</p> <p>40.0 %</p> <p>Not determined.</p>
<ul style="list-style-type: none"> <li>· Information with regard to physical hazard classes</li> <li>· Explosives</li> <li>· Flammable gases</li> <li>· Aerosols</li> <li>· Oxidising gases</li> <li>· Gases under pressure</li> <li>· Flammable liquids</li> <li>· Flammable solids</li> <li>· Self-reactive substances and mixtures</li> <li>· Pyrophoric liquids</li> <li>· Pyrophoric solids</li> <li>· Self-heating substances and mixtures</li> <li>· Substances and mixtures, which emit flammable gases in contact with water</li> <li>· Oxidising liquids</li> <li>· Oxidising solids</li> <li>· Organic peroxides</li> <li>· Corrosive to metals</li> <li>· Desensitised explosives</li> </ul>	<p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p>

### SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### 26747-90-0 Toluene diisocyanate dimer

Oral	LD50 oral	2,500 mg/kg (rat)
Dermal	LD50 dermal	5,500 mg/kg (rat)
Inhalative	LC50 / 4 h	236.5 mg/l (rat)

#### 68439-49-6 Alcohols, C16-18, ethoxylated (1 - 2,5 moles ethoxylated)

Oral	LD50 oral	1,500 mg/kg (rat)
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#### 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50 oral	532 mg/kg (rat)
Dermal	LD50 dermal	4,115 mg/kg (rat)
Inhalative	LC50 / 4 h	0.4 mg/l (rat)

#### 2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50 oral	183 mg/kg (rat)
Dermal	LD50 dermal	218 mg/kg (rabbit)
Inhalative	LC50 / 4 h	0.53 mg/l (rat)

#### 55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone

Oral	LD50 oral	67 mg/kg (rat)
Dermal	LD50 dermal	87.1 mg/kg (rat)

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 26747-90-0 Toluene diisocyanate dimer

LC50 / 96 h	100 mg/l (orfe (ide))
EC50 / 48 h	100 mg/l (water flea)
EC50 / 3 h	100 mg/l (activated sludge)
EC50 / 72 h	100 mg/l (green algae)

#### 68439-49-6 Alcohols, C16-18, ethoxylated (1 - 2,5 moles ethoxylated)

LC50 / 96 h	50 mg/l (orfe (ide))
EC50 / 48 h	150 mg/l (water flea)

#### 2634-33-5 1,2-benzisothiazol-3(2H)-one

LC50 / 96 h	2.2 mg/l (bluegill sunfish)
	1.6 mg/l (rainbow trout)
EC50 / 48 h	3.27 mg/l (water flea)
EC50 / 16 h	0.4 mg/l (pseudomonas putida)
EC50 / 3 h	13 mg/l (activated sludge)
EC0	1 mg/l (water flea)
EC50	0.055 mg/l (green microalgae)
EC50 / 72 h	0.11 mg/l (selenastrum capricornutum)

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NOEC	0.092 mg/l (green algae) 1.2 mg/l (water flea) (OECD 211) 0.21 mg/l (rainbow trout) (OECD 215) mg/l (selenastrum capricornutum) (OECD 201)
<b>2682-20-4 2-methyl-2H-isothiazol-3-one</b>	
LC50 / 96 h	160 mg/l (zebrafish)
EC50 / 48 h	0.87 mg/l (water flea)
EC50 / 16 h	2.3 mg/l (pseudomonas putida)
EC50 / 3 h	34.6 mg/l (activated sludge)
EC50	0.063 mg/l (green microalgae)
EC50 / 72 h	0.157 mg/l (green microalgae)
NOEC	0.55 mg/l (water flea) 2.38 mg/l (fathead minnow) 0.03 mg/l (green microalgae)
<b>55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone</b>	
LC50 / 96 h	0.32 mg/l (bluegill sunfish) 0.22 mg/l (rainbow trout)
EC50 / 48 h	0.12 mg/l (water flea)
EC50 / 3 h	7.92 mg/l (activated sludge)
EC50	0.043 mg/l (n.a.)
EC50 / 72 h	0.048 mg/l (green microalgae) (SPO12089)
NOEC	0.035 mg/l (water flea)

- **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.

- **12.6 Endocrine disrupting properties**

- The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Behaviour in sewage plants:**

**68439-49-6 Alcohols, C16-18, ethoxylated (1 - 2,5 moles ethoxylated)**

EC10 / 3 h | 1,500 mg/l (activated sludge)

**55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone**

EC20 / 0,5 h | 0.97 mg/l (activated sludge)

- **Additional ecological information:**

- **CSB-value:**

**68439-49-6 Alcohols, C16-18, ethoxylated (1 - 2,5 moles ethoxylated)**

CSB | 1,980 mg/g (n.a.)

- **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**

- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· **Uncleaned containers/packaging material:**

· **Recommendation:**

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

Packaging can be reused or recycled after cleaning.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packaging with cured adhesive residues can be recycled.

Packaging with cured adhesive residues can be treated as household waste.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · ADR, ADN, IMDG, IATA	not applicable
· <b>14.2 UN proper shipping name</b> · ADR, ADN, IMDG, IATA	not applicable
· <b>14.3 Transport hazard class(es)</b> · ADR, ADN, IMDG, IATA · Class	not applicable
· <b>14.4 Packing group</b> · ADR, IMDG, IATA	not applicable
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	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.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

67-64-1	acetone	Listed
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· **Reportable poisons**

1336-21-6	ammonia, aqueous solution	10%
50-00-0	formaldehyde	5%

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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

H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H310 Fatal in contact with skin.  
 H311 Toxic in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH071 Corrosive to the respiratory tract.  
 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. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 2: Acute toxicity – Category 2  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

### · \* Data modified in comparison to the previous version.