

Safety data sheet

according to UK REACH Regulation

Printing date 29.09.2022

Version number 24

Revision: 29.09.2022

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 -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:**
 -
 - InfraServ Hoechst - Gefahrenabwehrmeldezentrale
 - D - 65926 Frankfurt
 - Fon: +49 (0)69-305-6418

* 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
 - mixture of methylchloroisothiazolinone and methylisothiazolinone

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- **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	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; Aquatic Chronic 2, H411; Acute Tox. 4, H302	≥0.25-<0.5%
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 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-<0.0015%

- **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

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- **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.
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.
Ensure good ventilation/extraction system at the workplace.
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.
 - **Storage class 12**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **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.
- **8.2 Exposure controls**
 - **Additional information about design of technical systems:** No further data; see item 7.

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- **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.
 - **Protection of hands:** 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 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

- | | |
|---------------------------|-----------------|
| · Appearance: | |
| · Form: | Fluid |
| · Colour: | White |
| · Smell: | Characteristic |
| · Odour threshold: | Not determined. |

· **pH-value at 20 °C:** 8

Change in condition

- | | |
|---|----------------|
| · Melting point/freezing point: | Not determined |
| · Initial boiling point and boiling range: | 100 °C |

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** >550 °C

· **Decomposition temperature:** Not determined.

· **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 at 20 °C:** 23 hPa

- | | |
|---------------------------|------------------------|
| · Density at 20 °C | 1.05 g/cm ³ |
| · Relative density | Not determined. |

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· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible
· distribution ratio (n-octanol/water):	Not determined.
· Viscosity:	
· dynamic at 20 °C:	3,000 mPas
· kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	0.8 %
· Solid content:	40.0 %
· 9.2 Other information	
· VOC - Volatile Organic Compounds	
· European Union	0.83 %
· Switzerland	0.69 %
· U.S.A (less water and less exempts)	1.7 g/l / 0.01 lb/gal

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

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **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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55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone

Oral	LD50 oral	67 mg/kg (rat)
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· Primary irritant effect:

- **to the skin:** Based on available data, the classification criteria are not met.
- **to the eye:** Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Additional toxicological information:

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.

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)

55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone

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.

· Ecotoxicological 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)
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55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone

EC20 / 0,5 h	0.97 mg/l (activated sludge)
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· Additional ecological information:

· CSB-value:

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

CSB	1,980 mg/g (n.a.)
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· 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.

· 12.5 Results of PBT and vPvB assessment

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

· 12.6 Other adverse effects

No further relevant information available.

* 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.

· Uncleaned containers/packaging material:

· Recommendation:

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

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- 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

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not applicable
· 14.2 UN proper shipping name · ADR, 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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	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 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.

- **Relevant phrases**

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- 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.
- H411 Toxic to aquatic life with long lasting effects.

- **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

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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. 1C: Skin corrosion/irritation – Category 1C
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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