

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/05/2020

Version number 1

Reviewed on 03/05/2020

### 1 Identification

- **Product identifier**
  - **Trade name: Jowapur 150.91**
  - **Application of the substance / the mixture**
    - Dispersion glue
    - Adhesives
- **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 SDS:**
    - Environmental management
    - Tel. +49 5231 749 -218 / -211 / -5460 / -5374
    - e-mail: umweltmanagement@jowat.de
  - **Information provided by department:**
    - Jowat Corporation
    - 5608 Uwharrie Rd.
    - Archdale, NC 27263
    - P.O.Box 1368
    - High Point, NC 27261
    - Tel.: +1 336 434-9000
    - Fax: +1 336 434-9019
    - E-Mail: info@jowat.com
  - **Emergency telephone number:** 1 800 424 9300 (Chemtrec 24 hours service)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



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

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

Toluene diisocyanate dimer

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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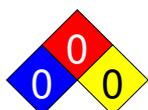
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- P280 Wear protective gloves.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P363 Wash contaminated clothing before reuse.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · Classification system

#### · NFPA ratings (scale 0-4)



Health = 0  
 Fire = 0  
 Reactivity = 0

#### · HMIS ratings (scale 0-4)



HEALTH 0 Health = 0  
 FIRE 0 Flammability = 0  
 REACTIVITY 0 Reactivity = 0

### · Other hazards

#### · Results of PBT and vPvB assessment

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

## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

#### · Description:

aqueous polymer emulsion  
 Polyurethane resin

#### · Dangerous components:

26747-90-0	Toluene diisocyanate dimer	1-<2.5%
55965-84-9	mixture of methylchloroisothiazolinone and methylisothiazolinone	<0.5%

#### · Additional information

In case any risk phrases are listed, please refer to paragraph 16 for the exact wording.

## 4 First-aid measures

### · Description of first aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**  
 Supply fresh air and call in physician to be on the safe side.  
 In case of unconsciousness place patient in stable side position for transportation.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult physician.
- **Information for physician**
  - **Most important symptoms and effects, both acute and delayed** Allergic reactions
  - **Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

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### 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
  - **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **Environmental precautions:**  
Do not allow product to reach sewer system or open water.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, general-purpose binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
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 disposal information.

### 7 Handling and storage

- **Handling**
  - **Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Provide good ventilation/extraction system in the workplace.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**  
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storage facilities and containers:**  
Prevent any seepage into the ground.
    - **Information concerning mixed product storage facilities:** Not required.
    - **Further information on storage conditions:**  
Protect from frost.  
Keep container tightly sealed.
    - **Storage class 12**
  - **Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit 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 at the date of compilation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protection and hygiene precautions**  
The standard precautionary measures for handling chemicals should be observed.  
Keep away from food, beverages and animal feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Do not eat or drink while working.
- **Breathing equipment:**  
Has to be worn only if no adequate extraction system is operating when sprayed.  
Filter A/P2  
Not necessary if room is well-ventilated.
- **Protection of hands:** Impervious gloves
  - **Material of gloves** Plastic gloves
  - **Penetration time of glove material**  
Please contact the glove manufacturer for the exact time of penetration/resistance level and observe this limit.
  - **In case of permanent contact in work areas where the risk of injury is low (e.g. labs) gloves made of the following material are suitable:**  
Plastic gloves
  - **In case of permanent contact, gloves made of the following materials are suitable:**  
Plastic gloves
  - **The following materials are unsuitable for gloves:**  
Leather gloves  
Strong gloves
- **Eye protection:** Goggles recommended during refilling an spraying.

### 9 Physical and chemical properties

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Color:</b>	White
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	undetermined
· <b>Boiling point/Boiling range:</b>	100 °C (212 °F)

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· <b>Flash point:</b>	Not applicable
· <b>Flammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	>550 °C (>1,022 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure at 20 °C (68 °F):</b>	23 hPa (17.3 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	1.08 g/cm <sup>3</sup> (9.01 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>dynamic:</b>	Not determined.
· <b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.8 %
· <b>Solid content:</b>	41.9 %
· <b>Other information</b>	No further relevant information available.
· <b>VOC - Volatile Organic Compounds</b>	
· <b>European Union</b>	0.78 %
· <b>Switzerland</b>	0.70 %
· <b>U.S.A (less water and less exempts)</b>	1.0 g/l / 0.01 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.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

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### \* 11 Toxicological information

#### · Information on toxicological effects

##### · Acute toxicity:

##### · LD/LC50 values that are relevant for classification:

26747-90-0 Toluene diisocyanate dimer		
Oral	LD50 oral	5,500 mg/kg (rat)
Dermal	LD50 dermal	5,500 mg/kg (rat)
Inhalative	LC50 / 4 h	236.5 mg/l (rat)
55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone		
Oral	LD50 oral	67 mg/kg (rat)

##### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

##### · Sensitization:

Sensitization possible through skin contact.

· **Additional toxicological information:**  
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) as issued in the latest version:  
 Irritant

##### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
titanium dioxide (airborne, unbound particles of respirable size)	2B

##### · NTP (National Toxicology Program)

None of the ingredients is listed.

##### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

#### · 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)
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)

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- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**

· <b>Behavior in sewer plants:</b>
<b>55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone</b>
EC20 / 0,5 h   0.97 mg/l (activated sludge)

- **Additional ecological information:**
  - **General remarks:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **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**  
Must not be disposed of together with household garbage. Do not allow product to reach sewer system.  
Hand over to hazardous waste disposers.
- **Uncleaned containers/packaging materials:**
  - **Recommendation:**  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.  
Packaging can be reused or recycled after cleaning.  
Empty contaminated packaging 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 agents.

### 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>DOT, ADN, IMDG, IATA</b>	Void
· <b>ADR</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void

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· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· <b>SARA Section 355 (extremely hazardous substances)</b>
None of the ingredients is listed.

· <b>SARA Section 313 (specific toxic chemical listings)</b>
None of the ingredients is listed.

· <b>TSCA (Toxic Substances Control Act)</b>
All components have the value ACTIVE.

· <b>Hazardous Air Pollutants</b>
None of the ingredients is listed.

· <b>Proposition 65</b>
· <b>Prop 65 - Chemicals known to cause cancer</b>
None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for females</b>
None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for males</b>
None of the ingredients is listed.

· <b>Chemicals known to cause developmental toxicity</b>
None of the ingredients is listed.

· <b>Carcinogenity categories</b>	
· <b>EPA (Environmental Protection Agency)</b>	
acetone	I

· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
67-64-1   acetone	A4
13463-67-7   titanium dioxide (airborne, unbound particles of respirable size)	A4

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
titanium dioxide (airborne, unbound particles of respirable size)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

These data are based on our present state of information. 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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· **Date of preparation / last revision 03/05/2020 / -**

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation – Category 1

· **\* Data in paragraphs with asterisk are revised in comparison to the previous version.**