

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

### 1 Identification

- **Product identifier**
  - **Trade name: Jowacoll 110.60**
  - **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
- **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 MSDS:**  
Environmental management  
Tel. +49 5231 749 -218 / -211 / -270  
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  
Fax: +1 336 434-9184  
E-Mail: canada@jowat.com
  - **Emergency telephone number:** 1 800 424 9300 (Chemtrec 24 hours service)

### 2 Hazard identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
- **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 with organic solvent  
polyvinyl acetate

#### Dangerous components:

CAS: 67-64-1	acetone	1-<5% w/w *
RTECS: AL 3150000		

\* Actual concentration ranges are withheld as a trade secret.

- **SVHC** Not applicable.

### 4 First aid measures

- **Description of first aid measures**
  - **General information**  
Immediately remove any clothing soiled by the product.

(Contd. on page 2)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

**Trade name: Jowacoll 110.60**

(Contd. of page 1)

No special measures required.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

- **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**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting 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.

- **For safety reasons unsuitable extinguishing agents** Water in a full jet.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from sources of ignition

- **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).

- **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.

Open and handle containers with care.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

- **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.

(Contd. on page 3)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

Trade name: Jowacoll 110.60

(Contd. of page 2)

### 8 Exposure controls/ Personal protection

#### · Control parameters

##### · Components with limit values that require monitoring in the workplace:

#### 67-64-1 acetone

EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm

#### · Regulatory information

EL (Canada): O. Reg. 287/17

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

#### · Additional information:

The lists that were valid at the date of compilation of this MSDS were used as basis.

#### · Exposure controls

##### · Personal protective equipment

##### · General protection and hygiene precautions

The standard precautionary measures for handling chemicals should be observed.  
Wash hands before breaks and at the end of work.

##### · Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX (boiling point &lt; 61 °C); Filter A (boiling point &gt; 60 °C).

Has to be worn only if no adequate extraction system is operating when sprayed.

Filter A/P2

##### · Protection of hands: Not required.

##### · 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

#### · Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

##### · Form:

Fluid

##### · Color:

White

##### · Odor:

Characteristic

##### · Odor threshold:

Not determined.

##### · pH-value at 20 °C:

4.5

##### · Change in condition

##### · Melting point/Melting range:

undetermined

##### · Boiling point/Boiling range:

100 °C

##### · Flash point:

Not applicable

##### · Flammability (solid, gaseous)

Not applicable.

(Contd. on page 4)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

Trade name: Jowacoll 110.60

(Contd. of page 3)

· <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:</b>	Not determined.
· <b>Density at 20 °C:</b>	1.07 g/cm <sup>3</sup>
· <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 at 20 °C:</b>	12,500 mPas
· <b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	2.0 %
· <b>Solid content:</b>	59.0 %
· <b>Other information</b>	No further relevant information available.
· <b>VOC - Volatile Organic Compounds</b>	
· <b>European Union</b>	2.07 %
· <b>Switzerland</b>	2.01 %
· <b>U.S.A (less water and less exempts)</b>	0.8 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**  
Develops readily flammable gases / fumes  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized  
No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Flammable gases/vapors  
Carbon monoxide and carbon dioxide  
Ethanoic acid

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

#### 67-64-1 acetone

Oral	LD50 oral	3,592 mg/kg (rat)
Dermal	LD50 dermal	15,688 mg/kg (rabbit)

(Contd. on page 5)

## Safety Data Sheet

### according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

Trade name: Jowacoll 110.60

(Contd. of page 4)

Inhalative	LC50 / 4 h	76 mg/l (rat)
<b>55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone</b>		
Oral	LD50 oral	67 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification 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:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

### 67-64-1 acetone

LC50 / 96 h	5,540 mg/l (rainbow trout)
LC50 / 48 h	7,500 mg/l (orfe (ide))
EC50 / 48 h	8,800 mg/l (water flea)
EC50 / 16 h	1,700 mg/l (activated sludge)
NOEC	3,400 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)

- **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:**

- **Behavior in sewer plants:**

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

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

- **Additional ecological information:**

- **CSB-value:**

### 67-64-1 acetone

CSB	2,210 mg/g (n.a.)
-----	-------------------

- **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.

(Contd. on page 6)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

Trade name: Jowacoll 110.60

(Contd. of page 5)

- **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.
- **Uncleaned containers/packaging materials:**
  - **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.  
Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
  - **Recommended cleaning agent:** Water, if necessary with cleaning agents.
  - **European waste disposal key number:**  
Packaging with uncured adhesive residues:  
15 01 10 - Packaging containing residues of dangerous substances or contaminated by dangerous substances.  
Packaging with cured adhesive residues:  
15 01 02 - Plastic packaging;  
15 01 04 - Metal packaging.

### 14 Transport information

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

- **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings)**

124-17-4 | 2-(2-butoxyethoxy)ethyl acetate

- **TSCA (Toxic Substances Control Act) (Substances not listed)**

All ingredients are listed.

- **Canadian Domestic Substances List (DSL) (Substances not listed)**

127-96-8 | Potassium trihydrogen dioxalate

- **Canadian Non Domestic Substances List (NDSL) (Substances not listed)**

None of the ingredients is listed.

(Contd. on page 7)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 08/15/2018

Version number 1

Reviewed on 08/15/2018

Trade name: Jowacoll 110.60

(Contd. of page 6)

· **Canadian ingredient disclosure list**

· <b>Limit 0,1 %</b>	
None of the ingredients is listed.	
· <b>Limit 1 %</b>	
67-64-1	acetone

· **Cancerogeny categories**

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

· **TLV (Threshold Limit Value established by ACGIH)**

9005-25-8	Starch	A4
67-64-1	acetone	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.	
------------------------------------	--

· **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.

· **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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health