

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/14/2016

Version number 1

Reviewed on 09/14/2016

* 1 Identification

- **Product identifier**
 - **Trade name:** JOWACOLL 110.60
 - **Article number:** 11060U
 - **Application of the substance / the mixture** Dispersion glue
 - **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 SDS:**
Environmental management
Ellen Lange / Tina Friedrich / Jan-Peter Boelcke
Fon +49 5231 749 218 / 270 / 211
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**



GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS08

- **Signal word** Danger

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

diisobutyl phthalate

- **Hazard statements**

H360 May damage fertility or the unborn child.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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- P405 Store locked up.
 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

- **HMS ratings (scale 0-4)**

- Health = *0
 - Flammability = 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
 - Vinyl resin

- **Dangerous components:**

CAS: 84-69-5 RTECS: TI 1225000	diisobutyl phthalate	2.5-<5%
CAS: 67-64-1 RTECS: AL 3150000	acetone	2.5 - <5%
CAS: 108-88-3 RTECS: XS 5250000	toluene	0.5 - <1%
CAS: 55965-84-9	mixture of methylchloroisothiazolinone and methylisothiazolinone	0.0015-<0.06%

- **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**

- **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**

- No further relevant information available.

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

- No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents**

- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

- **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.

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* 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).
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:** No special requirements.
 - **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.

* 8 Exposure controls/personal protection

- **Control parameters**
 - **Components with limit values that require monitoring in the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm BEI

108-88-3 toluene

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

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· Ingredients with biological limit values:	
67-64-1 acetone	
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
108-88-3 toluene	
BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

- **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

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

- **General Information**

- **Appearance:**

- **Form:** Fluid

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· Color:	White
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	30.0 Vol %
· Upper:	60.0 Vol %
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 20 °C (68 °F):	1.05 g/cm ³ (8.762 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	4.5 %
· Solid content:	66.9 %
· Other information	No further relevant information available.
· VOC - Volatile Organic Compounds	
· European Union	4.51 %
· Switzerland	4.45 %
· U.S.A (less water and less exempts)	17.5 g/l / 0.15 lb/gl

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:** Ethanoic acid

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*11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

55965-84-9 mixture of methylchloroisothiazolinone and methylisothiazolinone

Oral	LD50 oral	67 mg/kg (rat)
Inhalative	LC50 / 4 h	0.17 mg/l (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)

Poly(vinyl acetate)	3
toluene	3

· 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:

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)
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· Additional ecological information:

· General remarks:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Prevent undiluted product or product in large amounts to reach ground water, open waters or sewer systems.

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- **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:**
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.

14 Transport information

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

*15 Regulatory information

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

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

7601-54-9 | trisodium orthophosphate

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

108-88-3 | toluene

7601-54-9 | trisodium orthophosphate

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

All ingredients are listed.

- **Proposition 65**

- **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females**

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for males		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity		
108-88-3	toluene	
· Canadian ingredient disclosure list		
· Limit 0,1 %		
None of the ingredients is listed.		
· Limit 1 %		
67-64-1	acetone	
· Cancerogenity categories		
· EPA (Environmental Protection Agency)		
acetone	I	
toluene	II	
· TLV (Threshold Limit Value established by ACGIH)		
9005-25-8	Starch	A4
67-64-1	acetone	A4
108-88-3	toluene	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.

· **Date of preparation / last revision** 09/14/2016 / -

· **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

BEI: Biological Exposure Limit

Repr. 1: Reproductive toxicity – Category 1

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