

## 1 Identification

**Product identifier****Trade name:** DWS Flocculant 900**Article number:** 17900-01**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the preparation:**

For industrial use only

Metalworking fluid concentrate

Flocculant/ Flocculating agent

**Details of the supplier of the safety data sheet****Manufacturer / Supplier:**

BLASER SWISSLUBE AG

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**Emergency telephone number:**

Within USA and Canada : 1-800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

**OSHA/HCS status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture**

Harmful if swallowed.

Causes serious eye damage.

**Label elements****GHS label elements** The product is classified and labeled according to 29 CFR 1910.1200 (OSHA Hazcom 2012).**Hazard pictograms**

GHS05 GHS07

**Signal word** Danger**Hazard-determining components of labeling:**

Modified amine

l-(+)-lactic acid

**Hazard statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

(Contd. on page 2)

USA

# Safety Data Sheet

acc. to 29 CFR 1910.1200 (OSHA Hazcom 2012)

Issued on 06/28/2018

Edition number 2

Reviewed on 06/28/2018

**Trade name: DWS Flocculant 900**

(Contd. of page 1)

**Precautionary statements**

- P270 Do not eat, drink or smoke when using this product.  
 P280 Wear eye protection / face protection.  
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a poison center/doctor.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** None

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Declarable components:****CAS no.**

	Modified amine	>10-<20%
79-33-4	L-(+)-lactic acid	<2%

**Additional information:**

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

### 4 First-aid measures

**Description of first aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:** Not applicable, as the concentrate is not volatile.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** Immediately call a doctor.**Information for doctor:****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:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.

### 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

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

(Contd. on page 3)

**Trade name: DWS Flocculant 900**

(Contd. of page 2)

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

**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**

The product has been classified and marked in accordance with directives on hazardous materials.

Observe the general safety regulations when handling chemicals.

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

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

**Further information about storage conditions:**

Protect from heat and direct sunlight.

Optimal storage temperature between 32°F and 104°F

Minimum shelf life: In closed, original container, at least 24 months.

Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values at the workplace:**

NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m<sup>3</sup> (particulate)

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Respiratory Protection:** Not required.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves (recommended):** Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.

**Breakthrough time of glove material:**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

# Safety Data Sheet

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Trade name: DWS Flocculant 900

(Contd. of page 3)

**Eye protection (recommended):**

Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010

Use of tight fitting goggles

**Body protection (recommended):** Protective work clothing

## 9 Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Clear, transparent-yellowish
<b>Odor:</b>	Amine-like
<b>Odor threshold:</b>	Not determined.

<b>pH-value:</b>	9.0-10.5 @ 5% in H <sub>2</sub> O (DIN 51369 / ASTM D1287)
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**Change in condition:**

<b>Melting point/Melting range:</b>	Not applicable
<b>Boiling point/Boiling range:</b>	>100 °C (>212 °F) (DIN 51751)

<b>Flash point:</b>	Not applicable (contains water).
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<b>Evaporation rate</b>	Not determined.
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<b>Flammability (solid, gaseous):</b>	Not applicable.
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**Explosion limits (@1013 mbar):**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Oxidizing properties**

Not applicable.

<b>Relative density</b>	1.03 @ 68°F (20°C) (DIN 51757 / ASTM D1217)
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<b>Vapor density</b>	Not applicable.
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<b>Evaporation rate</b>	Not determined.
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**Solubility in / Miscibility with**

<b>Water:</b>	Soluble.
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<b>Partition coefficient (n-octanol/water):</b>	Not determined.
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<b>Auto-ignition temperature:</b>	Product is not selfigniting.
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<b>Decomposition temperature:</b>	Not determined.
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**Viscosity**

<b>Kinematic at 40 °C (104 °F):</b>	2.9 mm <sup>2</sup> /s (ISO 3104 / ASTM D445)
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<b>VOC content:</b>	Not determined.
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<b>Other information:</b>	none
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## 10 Stability and reactivity

**Reactivity** None known if used as directed.**Chemical stability** Stable under recommended storage conditions.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.

(Contd. on page 5)

**Trade name: DWS Flocculant 900**

(Contd. of page 4)

**Hazardous decomposition products  
(in case of fire or oxidation):**  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

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

#### ATE (Acute Toxicity Estimate)

Oral	LD50	1,638-9,940 mg/kg
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#### Modified amine

Oral	LD50	300-2,000 mg/kg (rat)
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#### 79-33-4 L-(+)-lactic acid

Oral	LD50	1,810 mg/kg (Guinea pig)
		4,875 mg/kg (Mouse)
		3,730 mg/kg (rat)

#### Primary irritant effect:

**on the skin:** To be slightly irritating.

**on the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

#### IARC (International Agency for Research on Cancer)

None of the ingredients is listed in groups 1, 2A, or 2B.

#### NTP (National Toxicology Program)

None of the ingredients are listed.

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** Easily biodegradable

#### Other information:

Biodegradation according OECD 301 B; after 28 days: > 70%.

The product is easily biodegradable according to the OECD 301 and 302 guidelines.

#### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Additional ecological information:

#### General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.

USA

(Contd. on page 6)

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(Contd. of page 5)

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

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

### Used containers

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### UN-Number

DOT, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Hazard Classification:

Not regulated

DOT, IMDG, IATA

Not regulated

### Environmental hazards

Marine pollutant (according to IMDG): No

Special precautions for user

Not applicable.

Stowage Category

A

Transport/Additional information:

Not hazardous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

UN "Model Regulation":

Not regulated

## 15 Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### SARA (Superfund Amendments and Reauthorization)

##### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

##### Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

#### California Proposition 65

This product contains one or more chemicals listed under California Proposition 65. Such chemicals are not used as raw materials in the product formulation but rather are typical impurities of the raw materials.

#### Carcinogenic categories:

##### EPA (Environmental Protection Agency)

None of the ingredients are listed.

##### NIOSH-Carcinogen list

None of the ingredients are listed.

#### California SCAQMD Rule 1144:

Category: Metalworking Fluid – Metal Forming – General. Recordkeeping requirement: Super Compliant.

**GHS label elements** GHS label elements are issued under section 2.

USA

(Contd. on page 7)

**Trade name: DWS Flocculant 900**

(Contd. of page 6)

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### H.R.2420 (RoHS):

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

### BSE/TSE:

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

### NFPA ratings (scale 0-4)



Health = 2

Fire = 0

Reactivity = 0

### Hazards of the dilution with water (its intended use):

For the product diluted to 0.1 concentration into water (maximum recommended concentration) the following GHS pictograms, signal words, precautionary and hazard statements apply: None

**Department issuing SDS:** Product Stewardship

### Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

### Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

ATE: Acute Toxicity Estimate

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**\* Data compared to the previous version altered.**

The asterisk (\*) on the left side indicate the respective changes from the previous version.