

1 Identification

Product identifier

Trade name: Synergy DWS 300

Article number: 17300-01

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

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE AG

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CH-3415 Hasle-Rüegsau

Switzerland

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BLASER SWISSLUBE, Inc.

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Information department:

Product Safety Department

E-mail: sds@blaser.com

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

Causes serious eye irritation.

Label elements

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

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P273 Avoid release to the environment.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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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.

102-71-6	Triethanolamine	>25-<50%
	Carboxylic acids, neutralized with alkanolamines*	>5-9.9%
	sodium citrate*	>1-4.9%
	2-aminoethanol *	>1-2.9%
	Benzotriazole, sodium salt*	<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
After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Not applicable, as the concentrate is not volatile.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult 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: CO₂, 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 Not required.

Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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).

Dispose contaminated material as waste according to item 13.

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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.

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:

102-71-6 Triethanolamine

TLV (US)	Long-term value: 5 mg/m ³
EL (Canada)	Long-term value: 5 mg/m ³
EV (Canada)	Long-term value: 3.1 mg/m ³ , 0.5 ppm
TLV (USA)	Long-term value: 5 mg/m ³

2-aminoethanol *

EV (Canada)	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 7.5 mg/m ³ , 3 ppm
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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.

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

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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.

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:

Form:	Liquid
Color:	Yellowish
Odor:	Weak, characteristic
Odor threshold:	Not determined.

pH-value: 8.7-9.9 @ 5% in H₂O (DIN 51369 / ASTM D1287)

Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	>100 °C (>212 °F) (DIN 51751 / ASTM D86)

Flash point: >130 °C (>266 °F) (ISO 2592 / ASTM D92)

Evaporation rate Not applicable (contains water).

Flammability (solid, gaseous): Not determined.

Explosion limits (@1013 mbar):

Lower:	Not determined.
Upper:	Not determined.

Oxidizing properties

Relative density 1.12 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

Vapor density Not applicable.

Evaporation rate Not determined.

Solubility in / Miscibility with

Water:	Not determined.
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Partition coefficient (n-octanol/water): Not determined.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

Viscosity

Kinematic at 40 °C (104 °F):	10.2 mm ² /s (ISO 3104 / ASTM D445)
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VOC content: 1.1 g/l (ASTM E1868-10); Concentrate in the packaging as sold.

0.1 g/l (ASTM E1868-10) @ Maximum concentration 15%

Other information: none

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.

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Incompatible materials: No further relevant information available.**Hazardous decomposition products****(in case of fire or oxidation):**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

Information on toxicological effects**Acute toxicity:****LD/LC50 values that are relevant for classification:**

* pure substance

ATE (Acute Toxicity Estimate)

Oral LD50 7,589 mg/kg

Dermal LD50 >3,297 mg/kg

Inhalative LD50 104 mg/L

Carboxylic acids, neutralized with alkanolamines*

Oral LD50 1,089 mg/kg (rat)

Primary irritant effect:**on the skin:** Causes skin irritation.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

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

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** No further relevant information available.**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.**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 sewage system.

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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.

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 does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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: Not applicable.

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Trade name: Synergy DWS 300**GHS label elements** GHS label elements are issued under section 2.

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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:

This product adheres to the standards of TSE/BSE-free products, according to European Community directives 93/42/EEC and 2003/32/EC.

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.

This product is entirely free from latex containing materials.

NFPA ratings (scale 0-4)



Health = 1
Fire = 1
Reactivity = 0

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.

Date of preparation / last revision 01/03/2018 / 3

Abbreviations and acronyms:

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

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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

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