Blaser.

Printing date 29.11.2019

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# 1 Identification

**Product identifier** 

Trade name: Synergy DWS 320

Article number: 17320-01 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 Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel.: +41 (0)34 460 01 01 Fax: +41 (0)34 460 01 00 E-mail: blaser@blaser.com

Blaser Swisslube (S) Pte. Ltd. No. 1 Yishun Industrial Street 1 A'Posh Bizhub <u>05-08</u> Singapore 768 160 Phone: +65 (0) 6339 6881 Fax: +65 (0) 6339 6151 E-mail: singapore@blaser.com

Further information obtainable from:

Product Safety Department E-mail: sds@blaser.com

Emergency telephone number: For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

# 2 Hazards identification

## Classification of the substance or mixture:

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

# Label elements

**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS). **Hazard pictograms** 



Signal word Warning Hazard-determining components of labelling: diethylene glycol Benzotriazole, sodium salt\* Benzotriazole\* Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P264 Wash thoroughly after handling.

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P280	Wear protective gloves / eye protection / face protection.
P305+P351+P3	338 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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
PBT: Not appli	cable.
vPvB: Not app	licable.

# 3 Composition/information on ingredients

# **Chemical characterisation: Mixtures**

# **Description:**

Mixture of substances listed below with nonhazardous additions. Mixture of nitrogen-containing organic acids (salts) and inhibitors.

Declarable, or haza CAS-no.	rdous components:	
CAS: 102-71-6 EINECS: 203-049-8	Triethanolamine	>20-<30%
CAS: 111-46-6 EINECS: 203-872-2	diethylene glycol STOT RE 2, H373; Acute Tox. 4, H302	>5-<15%
	Benzotriazole, sodium salt* Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	>5-9.9%
	Benzotriazole* Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319	>5-9.9%
	Carboxylic acids, neutralized with alkanolamines* Skin Irrit. 2, H315; Eye Irrit. 2, H319	>1-4.9%
CAS: 3811-73-2 EINECS: 223-296-5	Sodium omadine Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.25%
CAS: 31075-24-8 Polymer	Poly quaternary ammonium chloride Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; Acute Tox. 4, H332	<0.25%

#### Additional information:

\* Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

For the wording of the listed hazard phrases refer to section 16.

# 4 First-aid measures

#### Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

#### 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.

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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>, 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.

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 EU Directives / Ordinance on Hazardous Materials. Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection: 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 oxidising and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Optimal storage temperature between 0°C and 40°C.

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 facilities: No further data; see item 7.

#### **Control parameters**

Ingredients with limit values at the workplace:

General indication value for metalworking fluids (without obligation): 10 mg/m<sup>3</sup>.

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# 102-71-6 Triethanolamine

WSH (Singapore) Long-term value: 5 mg/m<sup>3</sup>

Additional information: The lists valid during the making 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 **Material of gloves** 

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

#### Penetration time of glove material

The exact breaktrough time has to be found out by the manufacturer of the protective gloves and has to be observed. **Eye protection:** Eye protector with side protection (framed eyeglasses) EN 166.

Body protection: Protective work clothing

# 9 Physical and chemical properties

Information on basic physical and General Information	a chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Yellow	
Odour:	Amine-like	
Odour threshold:	Not determined.	
pH-value:	8.7 - 9.2 @ 50 g/l H₂O (DIN 51369 / ASTM D1287)	
Change in condition:		
Melting point/freezing point:	Not applicable	
Initial boiling point and boiling r	ange: >100 °C (DIN 51751 / ASTM D86)	
Drip point:	Not applicable	
Pour point:	< 0 °C (ISO 3016 / ASTM D97)	
Flash point:	>130 °C (ISO 2592 / ASTM D92)	
·	Not applicable (contains water).	
Flammability (solid, gas):	Not applicable.	
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Ignition temperature:	Not applicable
	not determined
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits (@1013 mbar):	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not applicable.
Refractive index:	1.462 (@ 20 °C)
Density at 20 °C:	1.14 g/cm <sup>3</sup> (DIN 51757 / ASTM D1217)
Vapour density	Not applicable.
	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Kinematic at 40 °C:	17.3 mm²/s (ISO 3104 / ASTM D445)
Other information:	safety relevant data, which has to be considered as product specification

# 10 Stability and reactivity

Reactivity None known if used as directed. Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions Reacts with strong acids and oxidising agents. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

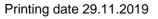
# 11 Toxicological information

Acute to	xicity values	relevant for classification:
ATE (Act	ute Tox	icity Estimates)
Oral	LD50	2,196 mg/kg
Dermal	LD50	>6,698 mg/kg (rabbit)
111-46-6	diethy	ene glycol
Oral	LD50	1,120 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
3811-73-	2 Sodiı	im omadine
Oral	LD50	750 mg/kg (rat) Calculated from 40% solution.
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		(Contd. of pa
Dermal	LD50	700 mg/kg (rabbit)
		Calculated from 40% solution.
Inhalative	LD50	2.7 mg/L (rat)
31075-24	-8 Poly	quaternary ammonium chloride
Oral		1,951 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LD50	2.9 mg/L (rat)
Primary i		
		rritation Causes skin irritation.
		nage/irritation Irritating effect. ikin sensitisation No sensitising effects known.
		ological information:
		vs the following dangers according to the calculation method of the General EU Classification
	s for Pr	eparations as issued in the latest version:
Irritant	Imuto	renisity Deced on evoluble data, the eleccification exiteria are not mat
		<b>genicity</b> Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
		<b>xicity</b> Based on available data, the classification criteria are not met.
		<b>posure</b> Based on available data, the classification criteria are not met.
	.g.e e	
STOT-rep	beated	exposure Based on available data, the classification criteria are not met.
STOT-rep	beated n haza	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity	beated n haza	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic to	beated n haza cal info	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub	cal infe	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub 3811-73-2	oeated n haza cal info oxicity ostance 2 Sodiu	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub 3811-73-2 EC50/96h	cal info oxicity ostance Sodiu 0.002	rd Based on available data, the classification criteria are not met.  prmation m omadine
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub 3811-73-2 EC50/96h EC50/48h	cal info oxicity ostance Sodiu 0.002 0.008	rd Based on available data, the classification criteria are not met.  prmation momadine 64 mg/L (Oncorhynchus mykiss) (OECD 203)
STOT-rep Aspiratio	cal info oxicity ostance Sodiu 0.002 0.008 0.001	rd Based on available data, the classification criteria are not met.  prmation  m omadine 64 mg/L (Oncorhynchus mykiss) (OECD 203) 8 mg/L (Daphnia magna) (OECD 202)
STOT-rep Aspiratio	cal info oxicity ostance Sodiu 0.002 0.008 0.001 -8 Poly	rd Based on available data, the classification criteria are not met.  prmation  m omadine  64 mg/L (Oncorhynchus mykiss) (OECD 203)  8 mg/L (Daphnia magna) (OECD 202)  2 mg/L (Algae) (OECD 201)
STOT-rep Aspiratio	cal info oxicity ostance Sodiu 0.002 0.008 0.001 -8 Poly 0.047	rd Based on available data, the classification criteria are not met.  prmation  m omadine 64 mg/L (Oncorhynchus mykiss) (OECD 203) 8 mg/L (Daphnia magna) (OECD 202) 2 mg/L (Algae) (OECD 201)  quaternary ammonium chloride
STOT-rep Aspiratio	eated n haza cal info oxicity ostance Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r	rd Based on available data, the classification criteria are not met. prmation m omadine 64 mg/L (Oncorhynchus mykiss) (OECD 203) 8 mg/L (Daphnia magna) (OECD 202) 2 mg/L (Algae) (OECD 201) quaternary ammonium chloride mg/l (Oncorhynchus mykiss) (OECD 203)
STOT-rep Aspiratio	eated n haza cal info oxicity ostance 2 Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r 0.001	rd Based on available data, the classification criteria are not met. prmation m omadine 64 mg/L (Oncorhynchus mykiss) (OECD 203) 8 mg/L (Daphnia magna) (OECD 202) 2 mg/L (Algae) (OECD 201) quaternary ammonium chloride mg/l (Oncorhynchus mykiss) (OECD 203) ng/L (Daphnia magna) (OECD 202)
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub 3811-73-2 EC50/96h EC50/72h EC50/72h EC50/72h Persisten Behaviou	Decated           n haza           cal info           cal info           oxicity           ostance           2 Sodiu           0.002           0.003           0.0047           0.0047           0.001           -8 Poly           0.001           -8 can	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio	cal info cal	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic to * pure sub 3811-73-2 EC50/96h EC50/72h BC50/72h EC50/72h EC50/72h EC50/72h Persisten Behaviou Bioaccun Mobility i	cal info cal info oxicity ostance Sodiu 0.002 0.001 -8 Poly 0.047 0.001 -8 Poly 0.047 0.37 r 0.001 cc ancur ir in en nulativ n soil l	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio	cal info cal info oxicity ostance Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r 0.001 cce and r in en nulativ n soil l al ecolo	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio	cal info oxicity ostance Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r 0.001 0.047 0.37 r 0.001 ce and r in en nulativ n soil l al ecolo notes:	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio	eated n haza cal info oxicity ostance 2 Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r 0.001 ce anc r in en nulativ n soil l al ecolo totes: l of PBT	rd Based on available data, the classification criteria are not met.
STOT-rep Aspiratio Ecologic Toxicity Aquatic te * pure sub 3811-73-2 EC50/96h EC50/48h EC50/72h Behaviou Bioaccun Mobility i Additiona General r Results o PBT: Not vPvB: Not	eated n haza cal info oxicity ostance 2 Sodiu 0.002 0.008 0.001 -8 Poly 0.047 0.37 r 0.001 -8 Poly 0.001 -8 Poly	rd Based on available data, the classification criteria are not met.  prmation  momadine 64 mg/L (Oncorhynchus mykiss) (OECD 203) 8 mg/L (Daphnia magna) (OECD 202) 2 mg/L (Algae) (OECD 201) quaternary ammonium chloride mg/l (Oncorhynchus mykiss) (OECD 203) ng/L (Daphnia magna) (OECD 203) ng/L (Daphnia magna) (OECD 203) ng/L (Daphnia magna) (OECD 202) 9 mg/L (Algae) (OECD 201) 1 degradability No further relevant information available. vironmental systems: e potential No further relevant information available. No further relevant informa

# 13 Disposal considerations

# Waste treatment methods

# Recommendation

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

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Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

UN-Number	
ADR, ADN, IMDG, IATA	Not regulated
UN proper shipping name ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es)	Notregulated
ADR, ADN, IMDG, IATA Class	Not regulated
Packing group ADR, IMDG, IATA	Not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of N the IBC Code	Marpol and Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ΙΑΤΑ	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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule - Psychotropic Substances

None of the ingredients are listed.

GHS label elements CLP/GHS label elements are issued under section 2.

#### National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) according to REACH, Article 57 This preparation does not contain any SVHC ("Substances of Very High Concern")

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

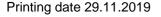
# 16 Other information

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.

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# Regulations / approvals / listings:

Information on REACH registration numbers in section 3:

If no REACH registration numbers on substances in section 3 are mentioned, then they are exempt from the REACH registration requirements (e.g. polymers).

#### RoHS:

The product is compliant with European Directives 2015/863/EC, 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PBDE) and / or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP), Disobutylphthalate (DIBP);

lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr<sup>6</sup>+-compounds.

## TSE/BSE:

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.

#### Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

#### Department issuing SDS: Product Stewardship

Contact: Mrs. Wilson + Mr. Feller

#### 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:

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) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) VOC: Volatile Organic Compounds (USA, EU) ISO: International Organisation for Standardisation DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** ATE: Acute Toxicity Estimate Acute Tox. 4: Acute toxicity - oral - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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\* Data compared to the previous version altered.

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

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