Safety Data Sheet
according to HPR, Schedule 1

Issued on 07.01.2022 | Edition number 1 | Reviewed on 07.01.2022

1 Identification

Product identifier

Trade name: Blaser TP 312

Article number: 40312-01
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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Emergency telephone number:
Switzerland: Abbreviated dialing 145 (or: ++41 (0)44/ 251 51 51) Toxicological Info-Centre CH-Zurich

2 Hazard identification

Classification of the substance or mixture
Causes skin irritation.
Causes serious eye irritation.

Label elements
GHS label elements acc. to Hazardous Products Regulations (HPR)
Hazard pictograms

Signal word Warning
Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary statements

P264	Wash thoroughly after handling.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.

Other hazards None

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Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/Information on ingredients

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Declarable components: **CAS no.**		
	Carboxylic acids, neutralized with alkanolamines*	1-5% w/w *
102-71-6	Triethanolamine*	7-13% w/w *
	Carboxylic acids, neutralized with alkanolamines*	3-7% w/w *
770-35-4	1-Phenoxypropan-2-ol	1-5% w/w *
68608-26-4	Sodium petroleum sulfonate	1-5% w/w *
	Benzotriazole*	0.5-1.5% w/w *
96-20-8	2-aminobutan-1-ol	0.5-1.5% w/w *
	Dicyclohexylamine*	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.
Additional information:
* Neutralization product: equilibrium of ion pairs.
* Non-hazardous substances with existing exposure limits (see Section 8)

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.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

Extinguishing media
Suitable extinguishing agents: CO_2, 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.

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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 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 -40°C and 40°C.
Optimal storage temperature between -40°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*	
EL (Canada)	TWA: 5 mg/m³
EV (Canada)	TWA: 3.1 mg/m³, 0.5 ppm
TLV (USA)	TWA: 5 mg/m³

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.

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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.
Eye protection (recommended): Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010
Body protection (recommended): Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Fluid
Color:	Dark brown
Odor:	neutral
Odor threshold:	Not determined.
pH-value:	8.5-9.4 @ 5% in H_2O (DIN 51369 / ASTM D1287)
Change in condition:	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>350 °C (>662 °F) (DIN 51751 / ASTM D86)
Flash point:	156 °C (312.8 °F) (ISO 2592 / ASTM D92)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable Not determined
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits (@1013 mbar):	
Lower:	0.6 Vol %
Upper:	6.5 Vol %
Oxidizing properties	Not applicable.
Density at 20 °C (68 °F):	1.01 g/cm³ (8.43 lbs/gal) (DIN 51757 / ASTM D1217)
Relative density	1.007 @ 68°F (20°C) (DIN 51757 / ASTM D1217) Not determined.
Vapor density	Not applicable. Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Emulsifiable.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Kinematic at 40 °C (104 °F):	78.8 mm²/s
Other information:	none No further relevant information available.

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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 oxidizing agents.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products (in case of fire or oxidation):
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Sulfur oxides (SOx)

*
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	<11,651 mg/kg
Dermal	LD50	20,000-31,600 mg/kg

96-20-8 2-aminobutan-1-ol		
Oral	LD50	2,300 mg/kg (Mouse)

Primary irritant effect:
on the skin: Causes skin irritation.
on the eye: Irritating effect.
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.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

*
12 Ecological information

Toxicity
Aquatic toxicity:
* pure substance

Benzotriazole*	
LC50/96h	180 mg/l (Brachydanio rerio)
NOEC/21d	0.97 mg/l (Daphnia galeata)
NOEC/10d	3.94 mg/l (Lemna minor)
EC50/48h	63-91 mg/L (Daphnia magna)
96-20-8 2-aminobutan-1-ol	
LC50/96h	>952 mg/l (Oncorhynchus mykiss) (OECD 203)
	270 mg/l (Leuciscus idus) (OECD 203)
EC50/96h	>0.94 mg/L (Pseudokirchneriella subcapitata) (OECD 201)

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EC50/48h	115 mg/L (Daphnia magna) (OECD 202)

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.
Ecotoxical effects:
Remark: Harmful to fish
Additional ecological information:
General notes:
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.
Harmful to aquatic organisms
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.

Used containers
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number	
DOT/TDG, ADR, IMDG, IATA	Not regulated
DOT/TDG, ADR, IMDG, IATA	Not regulated
DOT, IMDG, IATA	
Hazard Classification:	Not regulated
DOT/TDG, ADR, IMDG, IATA	Not regulated
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.
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:

TSCA (Toxic Substances Control Act):
All of the ingredients are listed.

Canadian substance listings:

Canadian Domestic Substances List (DSL): (Substances not listed.)
All ingredients are listed.

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Canadian Non-Domestic Substances List (NDSL): (Substances not listed.)
None of the ingredients are listed.

Canadian Environmental Protection Act (CEPA), Schedule 1:
None of the ingredients is listed.

National Pollutant Release Inventory (NPRI)
None of the ingredients are listed.

GHS label elements 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. no further regulations.

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.

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.

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:
RoHS: Restriction of Hazardous Substances
ADR: Accord relatif au transport international 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
SVHC: Substance of Very High Concern (REACH)
CLP: Classification, Labeling and Packaging (European GHS)
PBT: Persistent, Bioaccumulative and Toxic chemicals
vPvB: very Persistent and very Bioaccumulative chemicals
ATE: Acute Toxicity Estimate

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