

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:**

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Switzerland: Abbreviated dialing 145 (or: ++41 (0)44/ 251 51 51) Toxicological Info-Centre CH-Zurich

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 skin irritation.

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****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 / 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.

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

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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.**

	Carboxylic acids, neutralized with alkanolamines*	>1-2.9%
64742-52-5	Mineral oil, severely hydrotreated, naphthenic	>10-<20%
102-71-6	Triethanolamine	>5-<15%
	Carboxylic acids, neutralized with alkanolamines*	>1-6.9%
770-35-4	1-Phenoxypropan-2-ol	>1-6.9%
68608-26-4	Sodium petroleum sulfonate	>1-2.9%
	Benzotriazole*	<2%
96-20-8	2-aminobutan-1-ol	<2%
	Dicyclohexylamine*	<2%

Additional information:

* Neutralization product: equilibrium of ion pairs.

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:** 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 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.

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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 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°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:**

NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m³ (particulate)

64742-52-5 Mineral oil, severely hydrotreated, naphthenic

ACGIH TLV (US)	Long-term value: 5 mg/m ³
OSHA PEL (US)	Long-term value: 5 mg/m ³

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

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.

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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.

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:	Fluid
Color:	Dark brown
Odor:	neutral
Odor threshold:	Not determined.

pH-value: 8.5-9.4 @ 5% in H₂O (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)

Evaporation rate Not determined.

Flammability (solid, gaseous): Not applicable.

Explosion limits (@1013 mbar):

Lower:	0.6 Vol %
Upper:	6.5 Vol %

Oxidizing properties Not applicable.

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.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

Viscosity

Kinematic at 40 °C (104 °F): 78.8 mm²/s

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VOC content: 53 g/l (ASTM E1868-10); Concentrate in the packaging as sold.
7.95 g/l (ASTM E1868-10) @ Maximum concentration 15%
Not determined.

Other information: none
No further relevant information available.

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.

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)
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Dicyclohexylamine*

Oral	LD50	200 mg/kg (rat)
Dermal	LD50	200-316 mg/kg (rabbit)
Inhalative	LD50	>1.4 mg/L (rat)

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.

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

Dicyclohexylamine*

LC50/96h	62 mg/l (Danio rerio)
	12 mg/l (Oryzias latipes)
EC50/48h	201 mg/L (Bak)
	8 mg/L (Daphnia magna)

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, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Not regulated

DOT, IMDG, IATA

Hazard Classification:

Not regulated

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DOT, IMDG, IATA	Not regulated
Environmental hazards	Not applicable.
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):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All of the ingredients are listed.

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.

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.

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.

NFPA ratings (scale 0-4)



Health = 1
Fire = 1
Reactivity = 0

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

For the product diluted to 15 % 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.

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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)

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

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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.

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