

1 Identification**Product identifier****Trade name:** Blaser TP 307**Article number:** 40307-02**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 identification**Classification of the substance or mixture**

Causes serious eye irritation.

Label elements**GHS label elements** acc. to Hazardous Products Regulations (HPR)**Hazard pictograms****Signal word** Warning**Hazard statements**

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.

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

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.

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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*	1-5% w/w *
68608-26-4	Sodium petroleum sulfonate	1-5% w/w *
	Phosphoric acid, isoalkyl ester*	1-5% w/w *
	Alkanolamine*	1-5% w/w *
	Benzotriazole*	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**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. 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:** 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 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).

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.

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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.

Protect from frost.

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

Optimal storage temperature between 32°F and 104°F

Minimum shelf life: In closed, original container, at least 18 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/m ³
EV (Canada)	TWA: 3.1 mg/m ³ , 0.5 ppm
TLV (USA)	TWA: 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.

Avoid contact with the eyes.

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.

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

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Body protection (recommended): Protective work clothing

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9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Color:	Brown
Odor:	Amine-like
Odor threshold:	Not determined.

pH-value: 8.8 - 9.6 @ 5% in H₂O (DIN 51369 / ASTM D1287)

Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>200 °C (>392 °F) (DIN 51751 / ASTM D86)

Flash point: 146 °C (294.8 °F) (ISO 2592 / ASTM D92)

Flammability (solid, gaseous): Not applicable.
Ignition temperature: >300 °C (>572 °F) (DIN 51794 / ASTM E659)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits (@1013 mbar): general values for mineral oil, therefore not product specific

Lower: Not determined.

Upper: Not determined.

Oxidizing properties Not applicable.

Density at 20 °C (68 °F): 0.96 g/cm³ (8.01 lbs/gal) (DIN 51757 / ASTM D1217)

Relative density 0.955 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

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): 169 mm²/s

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.

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 (NO_x)

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Sulfur oxides (SOx)

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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	50,000 mg/kg
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Phosphoric acid, isoalkyl ester*

Oral	LD50	>2,000 mg/kg (rat)
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Primary irritant effect:
on the skin: No irritant effect.

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.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

Toxicity
Aquatic toxicity:

* pure substance

Phosphoric acid, isoalkyl ester*

LC50/96h	24 mg/l (Oncorhynchus mykiss) (OECD 203)
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EC50/48h	6.3 mg/L (Daphnia magna) (OECD 202)
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EC50/72h	150 mg/L (Pseudokirchneriella subcapitata) (OECD 201)
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Benzotriazole*

LC50/96h	180 mg/l (Brachydanio rerio)
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NOEC/21d	0.97 mg/l (Daphnia galeata)
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NOEC/10d	3.94 mg/l (Lemna minor)
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EC50/48h	63-91 mg/L (Daphnia magna)
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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.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

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Other adverse effects No further relevant information available.

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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.

Recommended cleansing agent: Water, if necessary with cleansing agents.

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.

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.

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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.