

1 Identification

Product identifier

Trade name: Blasolube® 306 (High temperature grease)

Article number: 00306-01

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

Lubricant

Grease

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE AG

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Information department:

Product Safety Department

E-mail: sds@blaser.com

Emergency telephone number:

For advice on chemical emergencies, spillages, fires or exposures: +1 866 928 0789 (Toll free)

2 Hazard identification

Classification of the substance or mixture

May cause an allergic skin reaction.

Label elements

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

Hazard pictograms



Signal word Warning

Hazard-determining components of labeling:

N-1-naphtylaniline

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Other hazards None**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.

Mineral oil containing lubricating grease with bentonite as thickener.

Declarable components:**CAS no.**

78-42-2	tris(2-ethylhexyl) phosphate	5-10% w/w *
7632-00-0	sodium nitrite	1-5% w/w *
90-30-2	N-1-naphtylaniline	0.1-1% w/w *

* Actual concentration ranges are 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:**

Supply fresh air and to be sure call for a doctor.

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.**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:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling:**Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

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: Store away from oxidizing agents.

Further information about storage conditions:

Protect from heat and direct sunlight.

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

Optimal storage temperature between 32°F and 104°F

Duration of storage: In original container, at least 3 years.

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: TLV value (oil mist) CH: 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:**

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 (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

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9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Pasty
Color:	Yellow-brown
Odor:	Mineral-oil-like
Odor threshold:	Not determined.

pH-value: Not applicable.

Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	>300 °C (>572 °F) (DIN 51751 / ASTM D86)

Flash point: >170 °C (>338 °F) (ISO 2592 / ASTM D92)
(Value for the processed mineral-, ester- or synthetic oil)

Flammability (solid, gaseous): Not applicable.
Ignition temperature: Not applicable
Not determined

Decomposition temperature: > 350 °C (> 662 °F)

Auto igniting: Product is not selfigniting.

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

Explosion limits (@1013 mbar):

Lower:	Not determined.
Upper:	Not determined.

Oxidizing properties: Not applicable.

Density:

Relative density: 0.96 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

Vapor density: Not applicable.
Not determined.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

Water: Insoluble.

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

Viscosity

Dynamic:	Not applicable.
Kinematic:	Not applicable.
Penetration:	290-310 mm/10 @ 25°C (77°F) (ISO 2137 / ASTM D217) NLGI class: 1-2

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 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

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Formaldehyde

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11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	2,576 mg/kg (rat)
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7632-00-0 sodium nitrite

Oral	LD50	85 mg/kg (rat)
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90-30-2 N-1-naphtylaniline

Oral	LD50	1,625 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: Sensitization possible through skin contact.

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:

90-30-2 N-1-naphtylaniline

NOEC/21d	0.025 mg/l (Daphnia magna)
EC50/96h	>10,000 mg/L (Bel) (OECD 209)
	0.44 mg/L (Oncorhynchus mykiss) (OECD 203)
EC50/48h	0.32 mg/L (Daphnia magna) (OECD 202)
EC50/72h	0.25 mg/L (Algae) (OECD 201)

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, even in small quantities.

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

Danger to drinking water if even extremely 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.

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
Marine pollutant (according to IMDG):

No

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 ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

Canadian substance listings:
Canadian Domestic Substances List (DSL): (Substances not listed.)

All ingredients are listed.

Canadian Non Domestic Substances List (NDSL)

None of the ingredients is listed.

Canadian Environmental Protection Act (CEPA), Schedule 1:

None of the ingredients is listed.

National Pollutant Release Inventory (NPRI)

7632-00-0 | sodium nitrite

1-5%

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.

IP346:

The mineral oil used in this product passes IP346 for DMSO extractable PAH's (Polycyclic aromatic hydrocarbons).

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:

ICAO: International Civil Aviation Organisation

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

ACGIH: American Conference of Governmental Industrial Hygienists

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)

DMSO: Dimethyl sulphoxide extract

IP 346: Institute of Petroleum and related for testing methods for petroleum and fuel products.

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.