

1 Identification

Product identifier

Trade name: Vasco 5000

Article number: 02850-05

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

Lubricant

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE AG

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Information department:

Product Safety Department

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Emergency telephone number:

Within USA and Canada . : 1-800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

2 Hazard(s) identification

Classification of the substance or mixture

Causes serious eye irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313 If eye irritation persists: Get medical advice/attention.
Other hazards None

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of esters, emulsifiers and inhibitors

Declarable components:

CAS no.

4259-15-8	Zinc alkyl dithiophosphate	>1.0-2.9%
	Alkyl alcohol, phosphoric acid ester, mixed with alcanolamines	< 2.00%
68411-96-1	Mixture of alkanolamines and carboxylic acids	< 2.00%
3811-73-2	Sodium omadine	< 0.25%

Additional information:

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

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

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 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.

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

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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.

Storage temperature between -4°F and +104°F

Optimal storage temperature between -20 °C and +40 °C.

Protect from frost.

Duration of Storage: 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:**

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

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:**

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory Protection: Not required.

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:	Liquid
Color:	Brown
Odor:	Specific type

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Odor threshold:	Not determined.
pH-value:	8.5 - 9.4 @ 5% in water (ASTM D1287)
Change in condition:	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	> 482°F (> 250 °C) ASTM D86
Flash point:	356°F (180 °C) ASTM D92
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Explosion limits (@1013 mbar):	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	
Relative density	0.96 @ 68°F (20 °C) ASTM D1217
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Emulsifiable.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	90 mm ² /s @ 104°F (40 °C) ASTM D445
VOC content	7.7 g/L (ASTM E1868-10) @ Maximum concentration 15% 51 g/l (ASTM E1868-10); Concentrate in the packaging as sold.
Other information:	none

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.

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

Phosphorus compounds

Nitrogen oxides (NO_x)

Metal oxides

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11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

> 2000 - < 5000 mg / kg (oral, rat)

> 5,100 mg/m³ 4h (inhalation, rat)

ATE (Acute Toxicity Estimates)

Oral	LD50	5601 mg/kg (rat)
Dermal	LD50	2213 mg/kg
Inhalative	LC50/4 h	900 mg/L (rat)

3811-73-2 Sodium omadine

Oral	LD50	1208 mg/kg (rat)
Dermal	LD50	1800 mg/kg (rabbit)
Inhalative	LC50/4 h	1.08 mg/L (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

Carcinogenic categories

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 is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:

3811-73-2 Sodium omadine

EC50/48h	0.0088 mg/L (daphnia) (OECD 202) nach 48h.
EC50/72h	0.0012 mg/L (Algae) (OECD 201) nach 120h.
EC50/96h	0.0026 mg/L (Oncorhynchus mykiss) (OECD 203) nach 96h.

Persistence and degradability Easily biodegradable

Other information:

Biodegradation according OECD 301 B; after 10 days: > 60%.

The product is easily biodegradable according to the OECD 301 and 302 guidelines.

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.

Results of PBT and vPvB assessment

PBT: Not applicable.

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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

DOT, ADR, IMDG, IATA not applicable**DOT, ADR** not applicable**DOT, IMDG, IATA****Hazard Classification:** not applicable**DOT, ADR, IMDG, IATA** not applicable**Environmental hazards****Marine pollutant (according to IMDG):** No**Special precautions for user** Not applicable.**Transport/Additional information:** Not hazardous according to the above specifications.**IATA**

IATA Dangerous Goods Regulation (DGR) 56th Edition 2015

UN "Model Regulation":

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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 is listed.

Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from notification requirements.

California Proposition 65

This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

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Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories:**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

NIOSH-Carcinogen list

None of the ingredients is listed.

California SCAQMD Rule 1144:

Category: Metalworking Fluid – Metal Removal – General. Recordkeeping requirement: Super Compliant.

(< 50 g/L VOC @ max. use concentration)

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.

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.

Date of preparation / last revision 05/29/2015 / 4**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)

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

ACGIH: American Conference of Governmental Industrial Hygienists

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

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

*** Data compared to the previous version altered.**

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