1 Identification

Product identifier

Trade name: VASCOMILL 22

Article number: 02904-04

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

Metal working fluid

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE, Inc.

31 Hatfield Lane

Goshen, NY 10924

USA

Phone: +1 (0) 845 294 32 00

Fax: +1 (0) 845 294 31 02

Mailto: mailboxusa@blaser.com

Information department:

Product Safety Department

E-mail: reach@blaser.com

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

The product is not classified according to the Globally Harmonized System (GHS).

Label elements

GHS label elements The product does not meet the criteria which leads to a labeling.

Hazard pictograms not applicable

Signal word not applicable

Hazard statements not applicable

Other hazards None

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of esters and additives

Declarable components:

CAS no.

not applicable

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

General information: No special measures required.

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.
Trade name: VASCOMILL 22

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
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 is not subject to identification regulations according to 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 14°F and 104°F
Duration of Storage: In closed, original container, at least 36 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)
Additional information: The lists that were valid during the creation were used as basis.
Trade name: VASCOMILL 22

Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
Respiratory Protection: Not required.
Protection of hands:
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: Liquid
Color: Amber colored
Odor: Weak, characteristic
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: 218 °C (424 °F) (ISO 2592 / ASTM D92)
Evaporation rate: Not determined.

Flammability (solid, gaseous): Not applicable.

Explosion limits (@1013 mbar):
Lower: Not determined.
Upper: Not determined.

Vapor pressure: Not determined.
Vapour density: Not determined.
Relative density: 0.90 @ 68°F (20 °C) (DIN 51757 / ASTM D1217)

Solubility in / Miscibility with
Water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.
Auto-ignition temperature: Product is not selfigniting.
Decomposition temperature: Not determined.
Trade name: VASCOMILL 22

<table>
<thead>
<tr>
<th>Viscosity</th>
<th>Kinematic at 40 °C (104 °F): 22 mm²/s (ISO 3104 / ASTM D445)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content</td>
<td>7.0 g/l (ASTM E1868-10); Concentrate in the packaging as sold.</td>
</tr>
<tr>
<td>Other information</td>
<td>none</td>
</tr>
</tbody>
</table>

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 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
- Sulfur oxides (SOx)
Additional information:
- No hazardous decomposition products can be expected when properly handled and stored.
- Release of flammable substances in distillation systems with solvent recovery possible.
- Risk of accumulation in the solvent circuit.
- Formation of trimethyl pentene possible.
- Formation of hydrogen sulfide possible.

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)
Dermal: LD50: 68966 mg/kg (rat)

Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
Sensitization: No sensitizing effects known.
Additional toxicological information:
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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 are listed.
12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.

Persistence and degradability
Easily biodegradable

Other information: 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.
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 applicable

Hazard Classification:
DOT, 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

UN "Model Regulation":
not applicable

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.
**Trade name:** VASCOMILL 22

### Section 313 (Specific toxic chemical listings):
This product does not contain a chemical that are listed in Section 313.

### TSCA (Toxic Substances Control Act) (Substances not listed.):
All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice 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 are listed.

### Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

### Carcinogenic categories:

<table>
<thead>
<tr>
<th>Agency</th>
<th>List</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA (Environmental Protection Agency)</td>
<td>None</td>
<td>None of the ingredients are listed.</td>
</tr>
<tr>
<td>NIOSH-Carcinogen list</td>
<td>None</td>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

**California SC AQMD Rule 1144:**

### 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)**

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>

**HMIS ratings (0-4)**

<table>
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</table>

**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)
- 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

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