

MSDS Vascomill

PRODUCT IDENTIFICATION

Manufacturer: Blaser Swissslube Inc.
31 Hatfield Lane
Goshen, NY 10924
USA

Emergency phone number USA: (845) 294-3200

Product name: **Vascomill 10** Art. 2903
Vascomill 22 Art. 2904
Vascomill 42 Art. 2900

Product type: Non water miscible vegetable oil based metalworking oils

Prepared by: OH & S Coordinator

Date of issue: August 15, 2008

Supersedes: Edition of April 24, 2007

HMIS III® ¹		
Health	1	1
Flamability	1	1
Physical Hazard	0	
Personal Protection	A or B	

PRODUCT COMPOSITION

Vascomill Cutting Oils are mixtures of vegetable oils, polar and EP additives and inhibitors. None of the ingredients are subject to exposure limits.

Ingredient	%
Food grade vegetable oil	60 - 90
Polar and EP additives	10 - 40

Vascomill Cutting Oils **do not contain** as ingredients: mineral oil, chlorinated additives, phenols, nitrites and/or nitrate releasing agents, boron, diethanolamine, NDELA, heavy metals (i.e. lead, mercury etc.) arsenic, PCB, PCT, TCDD or other dioxin related substances.

EMERGENCY & FIRST AID PROCEDURES

Skin contact: Wash with plenty of soap and fresh water (good personal hygiene practices are sufficient). Remove any contaminated clothing and launder before reuse.

Eye contact: Rinse with plenty of fresh water for 15 minutes. Consult physician if necessary.

Inhalation: Remove to fresh air.

Ingestion: Do not induce vomiting, pulmonary aspiration hazard. Consult a physician without delay. If involuntary vomiting occurs, keep head below hips and airways clear. Get medical attention.

FIRE & EXPLOSION HAZARD DATA

Flash point (COC): **Art. 2903** 406°F (208°C) **Art. 2904** 424°F (218°C) **Art. 2900** >464°F (240°C)

Auto ignition temperature: Not determined

Explosion limits: Not determined

Hazardous combustion products: Oxides of carbon, nitrogen and traces of oxides of sulfur and phosphorus

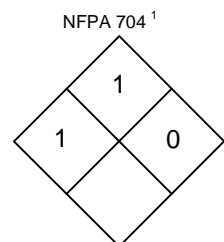
Products formed under abnormal conditions: None

Fire fighting media: CO₂, dry chemical, foam

Special fire fighting procedures: Wear self-contained breathing apparatus when fighting fires in confined spaces. Cool exposed containers with water mist to prevent pressure build-up.

Unusual fire or explosion hazards: Material can be made to burn. Extreme use conditions may heat the material above the flashpoint, creating a fire hazard.

When working with magnesium, hydrogen can form and present a significant explosion hazard. To prevent hydrogen gas build-up, use ventilation and remove magnesium fines frequently!



¹ See last page for explanations

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PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled:	Spills or leaks may cause slippery conditions. Contain spill and recover free product. Absorb remainder on oil-absorbing materials (such as 'Speedy Dry®'). Prevent material from entering surface waters, storm sewers or soils.
Waste disposal methods:	Dispose according to all applicable federal, state and local regulations.
Precautions to be taken in handling/storing:	Avoid direct solar irradiation of concentrate containers. Do not store below -4°F (-20°C).
Other precautions:	Do not store with strong oxidizers.

CONTROL MEASURES

Ventilation:	Ventilation sufficient to comply with recommended NIOSH exposure limit for metalworking fluids is suggested.
Respiratory protection:	Not generally required.
Protective gloves:	Impervious gloves recommended where prolonged or repeated contact cannot be avoided. Use extreme care when wearing gloves around moving machinery.
Eye protection:	Industrial safety glasses are recommended.
Other protective equipment or clothing:	Standard work clothing and shoes.
Work/hygienic practices:	Thorough personal hygiene and clean working practices are sufficient.

CHEMICAL & PHYSICAL PROPERTIES OF THE COMPLETE PRODUCT

Volatiles in %:	Nil		
Vapor pressure:	Not volatile		
Boiling point:	> 390°F (200°C)		
	Art. 2903	Art. 2904	Art. 2900
Pour point:	<5°F (-15°C)	<5°F (-15°C)	5°F (-15°C)
Density:	0.883 g/cm ³	0.905 g/cm ³	0.927 g/cm ³
Viscosity @ 104°F (40°C):	10 mm ² /s	22 mm ² /s	42 mm ² /s
Solubility in water:	No	No	No
Color of liquid:	yellow	light brown	light brown

REACTIVITY DATA

Stability:	Stable
Conditions to avoid:	Avoid direct solar irradiation of concentrate containers. Good and safe housekeeping procedures suggest that all combustible materials be stored away from strong oxidizers. When working with magnesium, hydrogen can form and present a significant explosion hazard. To prevent hydrogen gas build-up, use ventilation and remove magnesium fines frequently!
Incompatibility (materials to avoid):	Strong oxidizers
Hazardous decomposition or by-products:	None expected
Hazardous polymerization or by-products:	Will not occur

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HEALTH HAZARD DATA

LD₅₀ of concentrate:	> 5g/kg (calculated)
Health hazards (acute/chronic):	Not established, none expected under normal use conditions.
Skin irritation:	Not established, not expected to be irritating.
Eye irritation:	Not established, not expected to be irritating.
Routes of entry:	<ul style="list-style-type: none">♦ Inhalation: Possible♦ Skin: Not readily absorbed through skin♦ Ingestion: Accidental only
Carcinogenicity:	None of the ingredients are listed on OSHA, IARC, NTP or other lists of carcinogenic ingredients
OSHA regulated:	No
WHMIS:	No
Signs and symptoms of exposure:	None established, none expected under normal use conditions
Medical conditions generally aggravated by exposure:	Not established, none expected under normal use conditions
NIOSH recommended exposure level for metalworking fluids:	0.5 mg/m ³

ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION

NFPA Storage: III B

SARA Title III information:

♦ Immediate health (acute):	No
♦ Reactive hazard:	No
♦ Fire hazard:	No
♦ Delayed health (chronic):	No
♦ Sudden pressure release:	No

SARA notification under 40 CFR part 372 for Art. 2900 only:

This notification must not be detached from the MSDS and any copying and redistribution of this MSDS must include this notice, as required by 40 CFR part 372: Vascomill 42 contains a zinc compound that is reportable under SARA Title III, Section 313:

Zinc compound: ~15.3 lbs per drum

RCRA / Hazardous Waste: Vascomill, as sold, does not meet the criteria of a hazardous waste as defined under 40CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as hazardous waste under Subpart D. It is the end user's responsibility to determine the regulatory status of the waste at the time of disposal.

TSCA: All ingredients of Vascomill are listed on the TSCA Chemical Substances Inventory.

Clean Air Act: Vascomill **does not contain nor is it manufactured** with ozone depleting substances as defined in the Federal Clean Air Act Amendments of 1990, sections 602 and 611.

Canadian DSL / NDSL Information: All ingredients of Vascomill are listed on the Canadian DSL.

DOT: These products are **not** considered hazardous under current DOT regulations.

Spills: These products are classified as oil. Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center at 1-800-424-8802.

RoHS: This product conforms to the RoHS Directive in that the concentrations of RoHS regulated materials are significantly below RoHS regulatory thresholds.

Animal products / byproducts: This product does not contain any raw materials sourced from animal products or animal byproducts.



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HMIS III® Ratings	0	1	2	3	4
Health, Flamability, Physical Hazard	Minimal hazard	Slight hazard	Moderate hazard	Serious hazard	Severe hazard

There is a new generation of HMIS® being introduced, HMIS® III. This new system still uses colored bars and numeric hazard ratings, but instead of "reactivity" it uses "physical hazard" warnings, which are more in line with OSHA defined hazards. HMIS® III will provide employees the tools to understand and handle chemicals with a far greater degree of precision, thereby increasing the potential for the customer's HazCom compliance.

The HMIS® III health criteria have been designed to be as compatible as possible with the definitions contained in ANSI Z129.176. They also reflect certain criteria accepted by NIOSH, U.S. EPA, and other organizations. Acute oral, dermal, and inhalation toxicity are rated on a five-tiered scale (0-4), generally with a tenfold difference. The new HMIS® III uses two boxes to indicate health hazards:

- The left box indicates if the chemical is a chronic or an acute hazard. An asterisk (*) or other designation corresponds to additional information on data sheet or separate chronic effects notification.
- The right box is used to indicate the hazard rating number. Numeric ratings are based on acute toxicity and chronic health hazard data, either from internal company data or published information. The HMIS® III health criteria have been designed to be as compatible as possible with the definitions contained in ANSI Z129.176. They also reflect certain criteria accepted by NIOSH, U.S. EPA, and other organizations. Acute oral, dermal, and inhalation toxicity are rated on a five-tiered scale (0-4), generally with a tenfold difference between the levels.

Personal Protection Index:

- A: Safety glasses with side shields
- B: Safety glasses with side shields and impervious gloves (Viton, neoprene or other oil resistant material)

NFPA 704 Ratings (Under Fire Conditions)	0	1	2	3	4
Health Hazard	Normal Material	Slightly Hazardous	Hazardous	Extreme danger	Deadly
Fire (Flash Point)	Will not Burn	>200°F	100-200°F	73-100°F	<73°F
Reactivity	Stable	Unstable if heated	Violent Chemical change	Shock and Heat may detonate	May detonate

Notice to Reader: Information presented in this MSDS has been compiled from sources considered to be dependable and is, to the best of Blaser Swissslube Inc. knowledge, accurate and reliable, but is not guaranteed to be so. The Data in this MSDS relates only to the specific material designated herein. Blaser Swissslube Inc. assumes no legal responsibility for the use or reliance upon these data. Since conditions of use are not under our control, Blaser Swissslube Inc. makes no warranty as to the results to be obtained in using this material and we must necessarily disclaim all liability with respect to the use of any material supplied by us.