

MSDS Blasocut®

PRODUCT IDENTIFICATION

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

Emergency phone number USA: (845) 294-3200

Product name: **Blasocut® 2000 CF Art. No. 875**
Blasocut® 2000 CF SW Art. No. 875SW
Blasocut® Kombi Art. No. 883
Blasocut® Kombi SW Art. No. 883SW

Product type: Water-miscible mineral oil based metalworking fluid

Prepared by: OH & S Coordinator

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

PRODUCT COMPOSITION

Blasocut® 2000 CF and Blasocut® Kombi are tested, non-hazardous mixtures (as defined by 29 CFR 1910.1200) of:

Ingredient	%	CAS No:	Exposure Limit:
Severely hydrotreated mineral oil	40 - 70	64742-52-5	OSHA: 5mg/m ³
Emulsifiers	15 - 40	68608-26-4 61790-44-1 61791-12-6	-
Polar additives	2 - 7	61788-66-7 8016-28-2	-
Corrosion and fungi inhibitors	0.5 - 1		-
Odorant	< 0.1		-
Stabilizers:	<2		

Na-benzoate; 2,3-pentandiol, 2-methyl; 2-propanol, 1-phenoxy; Ca-acetate; alpha-Tocopherol; citric acid; tartaric acid; ascorbic acid; ascorbylpalmitate; oleylscarcosine; 1-hydroxyethyl-2-oleyl-imidazoline and glycerin

Blasocut® **do not contain** as an ingredient: chlorine, active sulfur, phosphorus, phenols, nitrites, formaldehyde or formaldehyde releasing substances, heavy metals (i.e. lead, mercury etc.), arsenic, dicyclohexylamine (DCHA), 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 laundry 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 airways clear; ensure that mouth is below hip level. Get medical attention.

FIRE & EXPLOSION HAZARD DATA

Flash point: (COC): Art. 875: 270°F (132° C)
Art. 883: 266°F (130° C)

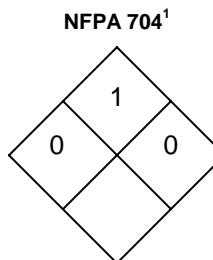
Auto ignition temperature: 572°F (300°C)

Explosion limits: Not determined

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

Products formed under abnormal conditions: None

Fire fighting media: CO₂, dry chemical, foam



¹ See last page for explanations

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FIRE & EXPLOSION HAZARD DATA - *continued* -

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:	Not recommended for machining magnesium due to significant fire and explosion hazards; end user assumes all liability.

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 using oil-binding agents (such as 'Speedy Dry®'). Prevent material from entering surface waters, storm sewers or soils.
Waste disposal methods:	Split emulsion with absorbing agents, salts or ultra-filtration. Dispose according to all applicable federal, state and local regulations.
Precautions to be taken in handling/storing:	Avoid direct solar irradiation of concentrate containers.
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:	Not generally required. Impervious gloves recommended where prolonged or repeated contact cannot be avoided. Use caution 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:	572°F (300°C)
Pour point:	-22°F (< -30°C)
pH value:	8.5 - 9.2 @ 5%
Density:	<u>Art. 875:</u> 0.940 g/cm ³ <u>Art. 883:</u> 0.959 g/cm ³
Viscosity:	<u>Art. 875:</u> 122 mm ² /s @ 68°F (20°C) <u>Art. 875:</u> 36 mm ² /s @ 104°F (40°C) <u>Art. 883:</u> 165 mm ² /s @ 68°F (20°C) <u>Art. 883:</u> 50 mm ² /s @ 104°F (40°C)
Solubility in water:	Emulsifies
Appearance and odor:	Light brown liquid / pleasant odor (almonds)

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.
Incompatibility (materials to avoid):	<u>Concentrate:</u> Strong oxidizers <u>End use dilutions:</u> Magnesium
Hazardous decomposition or by-products:	Oxides of carbon or nitrogen
Hazardous polymerization or by-products:	Will not occur

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HEALTH HAZARD DATA

LD₅₀ of concentrate:	> 15 g/kg
Health hazards (acute/chronic):	None
Skin irritation:	Not determined
Eye irritation:	Negative
Carcinogenicity:	None
Routes of entry:	♦ Inhalation: Unlikely ♦ Skin: No ♦ Ingestion: Accidental only
Ames test:	Negative
Signs and symptoms of exposure:	None established
Medical conditions generally aggravated by exposure:	Not established
OSHA regulated:	No
WHMIS regulated:	No
Exposure limits:	NIOSH Recommended exposure limit for Metalworking fluids: 0.5mg/m ³ (particulate) OSHA 29 CFR 1910.1000 for oil mist in air: 5 mg/m ³ ACGIH: TLV for oil mist in air: 5 mg/m ³

The mineral oil used in Blasocut® passes IP346 for DMSO extractable PNA.

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

Blasocut does not contain any ingredients listed on the SARA Title III, Section 313 List or CERCLA List of Chemicals.

RCRA / Hazardous Waste: Blasocut, as sold, does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that they do not exhibit the characteristics of a hazardous waste of Subpart C, nor are they listed as a 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 Blasocut are listed on the TSCA Chemical Substances Inventory.

Clean Air Act: Blasocut products **do not contain nor are they 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 Blasocut 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 should be reported to the National Response Center at 1-800-424-8802.

RoHS: This product conforms to the RoHS Directive in that the RoHS regulated materials are absent or their concentrations are significantly below 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

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