

| Manufacturer:               | Blaser Swisslube, Inc.<br>31 Hatfield Lane<br>Goshen, NY 10924<br>USA |                              |                    |     |
|-----------------------------|---|------------------------------|--------------------|-----|
| Emergency phone number USA: | (845) 294-3200  |                              | HMIS               |     |
| Product name:               | Blasocut BC40SW   | Art. No. 40018               | Health             | Ō   |
|                             | Blasocut BC20SW   | Art. No. 40017               | Fire<br>Reactivity | 1   |
| Product type:               | Water-miscible mineral  | oli based metatworking fluid | Treacharty         | 1 0 |
| Prepared by:                | OH & S coordinator  |                              |                    |     |
| Date of issue:              | June 20, 2005   |                              |                    |     |
| Supersedes:                 | Edition 3 of February 14  | . 2005                       |                    |     |

### PRODUCT COMPOSITION

| Ingredient  | %       | CAS No:                                | Exposure Limits:         |
|---|---------|--|--------------------------|
| Severely hydrotreated mineral oil                                 | 45 - 65 | 64742-52-5                             | OSHA: 5mg/m <sup>3</sup> |
| Emulsifiers   | 30 - 50 | 68608-26-4<br>67701-22-8<br>68154-86-9 |                          |
| Polar additives   | 1 - 5   | 8019-28-2<br>61788-66-7                |                          |
| Chlorinated paraffin (C <sub>1620</sub> , less than 50% chlorine) | 5 - 15  | 61788-76-9                             |                          |
| Stabilizers and inhibitors:                                       | 1 - 5   |  | •                        |

Corrosion and fungi inhibitors; Na-benzoale; 2-propanol, 1-phenoxy; Ca-scelale; alpha-Tocopherol; citric acid; lantaric acid; ascorbic acid; ascorbylpalmilate; olayiscarcosine; 1-hydroxyethyl-2-olayi-imidazoline, giycerin and odorant

Blasocut BC40 SW and BC 20SW do not contain as ingredients: active sulfur, phenols, nitrites, formaldehyde or formaldehyde releasing substances, heavy metals (i.e. lead, mercury etc.), arsenic, PCB, PCT, TCDD or other dioxin related substances. Benzo(a)pyrene content less than 10 ppm (GC-MS method).

### EMERGENCY & FIRST AID PROCEDURES

| Skin contact: | Wash with plenty of soap and fresh water (good personal hygiene practices are sufficient). Remove any contaminated<br>clothing and launder before reuse.                           |
|---------------|--|
| Eye contect:  | Rinse with plenty of fresh water for 15 minutes. Consult physician if necessary.   |
| inhaiation:   | Remove to fresh air.   |
| Ingestion:    | Do not induce vomiting, pulmonary aspiration hazard. Consult a physician without delay. If involuntary vomiting<br>occurs, ensure mouth is below hip level. Get medical attention. |

## FIRE & EXPLOSION HAZARD DATA

| Flash point (COC):                            | 240°F (116°C)   | NFPA 704 <sup>1</sup> |
|---|---|-----------------------|
| Auto ignition temperature:                    | Not delermined  | $\wedge$              |
| Explosion limits:                             | Not determined  | $\langle 1 \rangle$   |
| Hazardous combustion products:                | Oxides of carbon, nitrogen and traces of oxides of suffer and chlorine                        |                       |
| Products formed under<br>abnormal conditions: | Thermal decomposition of the concentrate above 176°F (80°C) may produce trace amounts of HCI. |                       |
| Fire fighting media:                          | CO2, dry chemical, foam   | $\checkmark$          |

<sup>1</sup> See last page for explanation\_

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|   | Were said applying the stilling as a rate   |   |  |  |  |
|---|---|---|--|--|--|
| Special fire fighting procedures:   | Wear self-contained breathing apparatus when fighting fires in confined spaces.<br>Cool exposed containers with water mist to prevent pressure build-up.<br>Not recommended for machining magnesium due to significant fire and explosion hazards; end-user<br>assumes all liability. |   |  |  |  |
| Inusual fire or explosion hazards:  |   |   |  |  |  |
| PRECAUTIONS FOR SAFE HANDL  | ING & USE   |   |  |  |  |
| Steps to be taken in case<br>naterial 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, selts or ultra-filtration. Dispose according to all applicable federal, state and local regulations.  |   |  |  |  |
| Precautions to be taken in<br>handling/storing:   | Avoid direct solar irradiation of concent   | rate containers.  |  |  |  |
| Other precautions:  | Do not store with strong oxidizers.   |   |  |  |  |
| CONTROL MEASURES  | ······································  |   |  |  |  |
| Ventilation:  | Ventilation sufficient to comply with reca<br>suggested.  | ommended NIOSH exposure limit for metatworking fluids is  |  |  |  |
| 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 recommen  | ded.  |  |  |  |
| Other protective equipment or<br>clothing:  | Standard work clothing and shoes.   |   |  |  |  |
| Work/hygienic practices:  | Thorough personal hygiene and clean v   | vorking practices are sufficient.   |  |  |  |
| CHEMICAL & PHYSICAL PROPERT   | TIES OF THE COMPLETE PRODUCT  |   |  |  |  |
| Volatiles in %:   | Nil   |   |  |  |  |
| Vapor pressure;   | Not volatile  |   |  |  |  |
| Boiling point:  | Not applicable  |   |  |  |  |
| Pour point:   | < -22°F (< -30°C)   |   |  |  |  |
| oH @ 5% after 24 hrs:   | 8.9 - 9.2   |   |  |  |  |
| Density:  | <u>40018</u> ; 0.98 g/cm <sup>3</sup>   | <u>40017</u> : 0.97g/cm <sup>3</sup>  |  |  |  |
| /iscosity:  | <u>40018</u> : 55 mm²/s @ 104°F (40°C)  | <u>40017</u> : 53 mm²/s @ 104°F (40°C)  |  |  |  |
| Solubility in water:  | Emulsifies  |   |  |  |  |
|   | Light brown liquid / pleasant odor (almo  | nds)  |  |  |  |
| Appearance and odor:  |   |   |  |  |  |
| ······································  |   |   |  |  |  |
|   | Stable  |   |  |  |  |
| REACTIVITY DATA   | ·   | rate containers. Good and safe housekeeping procedures<br>be stored away from strong oxidizers. |  |  |  |
| REACTIVITY DATA<br>Stability:<br>Conditions to avoid:   | Avoid direct solar irradiation of concent suggest that all combustible materials i  |   |  |  |  |
| Appearance and odor:<br>REACTIVITY DATA<br>Stability:<br>Conditions to avoid:<br>Incompatibility (materials to avoid):<br>Hazardous decomposition or<br>byproducts: | Avoid direct solar irradiation of concent<br>suggest that all combustible materials i<br><u>Concentrate</u> : Strong oxidizers <u>Enc</u>   | be stored away from strong oxidizers.   |  |  |  |

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#### HEALTH HAZARD DATA



5 mg/m<sup>3</sup>

| LD <sub>s0</sub> of concentrate:                        | > 5 g/kg  | (calculated)                                    |                       |
|---|---|---|-----------------------|
| Health hazards (acute/chronic):                         | None  |   |                       |
| Skin sensitizing:                                       | Not expected to be sensitizing                          |   |                       |
| Eye irritation:   | Not expected to be irritating                           |   |                       |
| Carcinogenicity:  | None of the ingradients are listed in OSHA, NTP or IARC |   |                       |
| Routes of entry:  | Inhalation:   | Unikely   |                       |
|   | Skin:   | Not readily absorbed through skin               |                       |
|   | <ul> <li>Ingestion:</li> </ul>                          | Accidental only                                 |                       |
| Signs and symptoms of exposure:                         | None establist  | ned   |                       |
| Medical conditions generally<br>aggravated by exposure: | Not establishe  | đ   |                       |
| OSHA regulated:   | No  |   |                       |
| Exposure limits:  | NIOSH Recon   | nmended exposure limit for Metalworking fluids: | 0.5 mg/m <sup>3</sup> |
|   | OSHA 29 CFR 1910.1000 for oil mist in air:              |   | 5 mg/m <sup>3</sup>   |

The mineral oil used in Blasocut passes IP346 for DMSO extractable PNA. Benzo(a)pyrene content less than 10 ppm (GC-MS method).

ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION

| NFPA Storage:                                 | lii B |
|---|-------|
| SARA Title III information:                   |       |
| <ul> <li>Immediate health (acute):</li> </ul> | No ·  |
| Reactive hazard:                              | No    |
| <ul> <li>Fire hazard:</li> </ul>              | No    |
| <ul> <li>Delayed health (chronic):</li> </ul> | No    |
| <ul> <li>Sudden pressure release:</li> </ul>  | No    |

ACGIH: TLV for oil mist in air:

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

<u>RCRA / Hazardous Waste</u>; Blasocut, 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 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 and dispose of according to all applicable federal, state and local regulations.

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

Canadian DSL / NDSL information: All ingredients of Blasocut are listed on the Canadian DSL.

<u>Clean Air Act;</u> Blasocut 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.

DOT: Blasocut is not considered hazardous under current DOT regulations.

<u>Spills</u>: This product is 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.

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|                          | 0               | 1                  | 2                       | 3                  | *            |
|--------------------------|-----------------|--------------------|-------------------------|--------------------|--------------|
| HMIS Ratings             |                 |                    |                         |                    | -            |
| Health, Fire, Reactivity | Minimal         | Slight             | Moderate                | Serious            | Extreme      |
| NFPA 704 Ratings         |                 |                    |                         |                    |              |
| (Under fire conditions)  |                 |                    |                         |                    |              |
| Health Hazard            | Normal Material | Slightly Hazardous | Hazardous               | Extreme danger     | Deedly       |
| 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 | May detonate |
|                          |                 |                    |                         | detonate           | may watchate |

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