# **SAFETY DATA SHEET**



B-Cool Motec 501

## Section 1. Identification

Product identifier	: B-Cool Motec 501
Product code	: 11501-01
Other means of identification	: Not available.
Product type	: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Industrial use only. Metal working fluids	
Uses advised against	
Consumer use.	

Manufacturer	: BLASER SWISSLUBE AG Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel:+41 (0)34 460 01 01 E-Mail: contact@blaser.com
Supplier's details	: Blaser Swisslube (S) Pte. Ltd. No. 1 Yishun Industrial Street 1 A'Posh Bizhub #05-08 768160 Singapore Tel:+65 6339 6881 E-Mail: singapore@blaser.com
e-mail address of person responsible for this SDS	: reach@blaser.com
Emergency telephone number (with hours of operation)	: +65 3165 2217 (24h/7d)

# Section 2. Hazards identification

Classification of the	: SKIN CORROSION/IRRITATION - Category 2
substance or mixture	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

#### **GHS label elements, including precautionary statements**

Hazard pictograms	
Signal word	: Warning
Hazard statements	: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>

## Section 2. Hazards identification

Response	<ul> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not	: None known.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
1-aminopropan-2-ol	≥10 - ≤25	78-96-6
Phosphoric acid, isotridecyl ester	≤1.5	52933-07-0
benzotriazole	≤1	95-14-7
5(or 6)-carboxy-4-hexylcyclohex-2-ene-1-octanoic acid	≤3	1469983-44-5
pyridine-2-thiol 1-oxide, sodium salt	≤0.2	3811-73-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

### Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	Avoid breathing vapour or mist. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Section 4. First aid measures

Most important symptoms/e	ffects, acute and delayed	
Potential acute health effect	<u>ots</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symp	<u>itoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

### See toxicological information (Section 11)

# Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for con	tai	nment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

recautions for sale nanuling	<u> </u>	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Storage temperature: 0 to 40°C (32 to 104°F). Shelf life: 12 months. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

```
Occupational exposure limits
```

None.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state	:	Liquid.
Colour	:	Yellow.
Odour	:	Agreeable.
Odour threshold	:	Not available.
рН	:	8.8 to 9.3
Melting point/freezing point	:	Not available.
Pour point	:	<0°C (<32°F)

# Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: Not applicable.
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapour pressure	: Not available.
Relative vapour density	: Not available.
Relative density	: Not available.
Density	: 1.008 g/cm <sup>3</sup>
Dispersibility properties	: Dispersible in the following materials: cold water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 77.1 mm²/s (77.1 cSt)
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

### Section 10. Stability and reactivity

	<b>j</b>
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SADT	: Not available.

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-aminopropan-2-ol	LD50 Dermal	Rabbit	1851 mg/kg	-
	LD50 Oral	Rat	2098 mg/kg	-
Phosphoric acid, isotridecyl ester	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
benzotriazole	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
5(or 6)-carboxy-	LD50 Oral	Rat	6176 mg/kg	-

4-hexylcyclohex-2-ene	-			
1-octanoic acid pyridine-2-thiol 1-oxide sodium salt	e, LD50 Dermal	Rat	1800 mg/kg	-
Southin Sait	LD50 Oral	Rat	1500 mg/kg	-
Irritation/Corrosion				
Not available.				
Conclusion/Summar	v			
Skin	- pH value - Used for c	lassification		
Eyes	pH value - Used for c			
Sensitisation				
Not available.				
<u>Mutagenicity</u>				
Not available.				
Carcinogenicity Not available.				
Reproductive toxicity				
Not available.				
Teratogenicity				
Natavailable				
Not available. <mark>Specific target organ :</mark> Not available.	<u>toxicity (single exposure)</u>			
<mark>Specific target organ :</mark> Not available.	<u>toxicity (single exposure)</u> toxicity (repeated exposure)			
<mark>Specific target organ</mark> Not available. <mark>Specific target organ</mark>				
Specific target organ Not available. Specific target organ Not available.				
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available.				
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available.	toxicity (repeated exposure)			
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available.	toxicity (repeated exposure)	ritation.		
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available.	toxicity (repeated exposure) outes : Not available.		zards.	
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available. formation on likely ro f exposure otential acute health of Eye contact	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in	effects or critical ha	zards.	
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. formation on likely ro f exposure otential acute health of Eye contact Inhalation Skin contact	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in : No known significant	effects or critical ha		
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available. formation on likely ro f exposure otential acute health of Eye contact Inhalation Skin contact Ingestion	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in : No known significant : Causes skin irritation	effects or critical ha	zards.	
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available. formation on likely ro f exposure otential acute health of Eye contact Inhalation Skin contact Ingestion	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in : No known significant : Causes skin irritation : No known significant	effects or critical has effects or critical has cological characte	zards. <mark>ristics</mark>	
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available. nformation on likely ro f exposure otential acute health of Eye contact Inhalation Skin contact Ingestion ymptoms related to the Eye contact	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in : No known significant : Causes skin irritation : No known significant in physical, chemical and toxi : Adverse symptoms m pain or irritation watering	effects or critical has effects or critical has cological characte	zards. <mark>ristics</mark>	
Specific target organ Not available. Specific target organ Not available. Aspiration hazard Not available. Not available. formation on likely ro f exposure otential acute health of Eye contact Inhalation Skin contact Ingestion	toxicity (repeated exposure) outes : Not available. effects : Causes serious eye in : No known significant : Causes skin irritation : No known significant in or known significant : Adverse symptoms m pain or irritation watering redness	effects or critical haz effects or critical haz cological characte ay include the follov	zards. <mark>ristics</mark> ving:	

Date of issue/Date of revision

: 9/7/2022

Date of previous issue

: No previous validation

Version :1

7/10 SG

# Section 11. Toxicological information

	_
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
B-Cool Motec 501	31190	8501.1	N/A	N/A	N/A
1-aminopropan-2-ol	2098	1851	N/A	N/A	N/A
benzotriazole	500	N/A	N/A	N/A	N/A
5(or 6)-carboxy-4-hexylcyclohex-2-ene-1-octanoic acid	6176	N/A	N/A	N/A	N/A
pyridine-2-thiol 1-oxide, sodium salt	1500	1800	N/A	N/A	1.5

# Section 12. Ecological information

т	oxi	С	itv	
_	-	-	-	

Product/ingredient name	Result	Species	Exposure
1-aminopropan-2-ol	Acute LC50 210 mg/l Fresh water	Fish - Carassius auratus	96 hours
benzotriazole	LC50 180 mg/l	Fish	96 hours
	Acute EC50 15.8 mg/l	Daphnia - Daphnia galeata	48 hours
	Chronic EC10 0.97 mg/l	Daphnia - Daphnia galeata	21 days
pyridine-2-thiol 1-oxide, sodium salt	EC50 0.0012 mg/l	Algae	72 hours
	EC50 0.0088 mg/l	Daphnia	48 hours

#### Persistence/degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1-aminopropan-2-ol	-0.96	-	low
benzotriazole	1.44	-	low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

## Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	-				
	UN	IMDG	ΙΑΤΑ	ADR/RID	ADN
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	9006
UN proper shipping name	-	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class (es)	-	-	-	-	9
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	Yes.

**Additional information** 

ADN

: The product is only regulated as a dangerous good when transported in tank vessels.

# Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

Singapore - hazardous	<b>chemicals</b>	under	government	<u>control</u>
None.			-	

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

List name	Ingredient name	Status
Schedule III	Triethanolamine	Listed

Montreal Protocol

## Section 15. Regulatory information

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Inventory list

China	
-------	--

: All components are listed or exempted.

- Europe
- : All components are listed or exempted.

### Section 16. Other information

<u>History</u>	
Date of printing	: 9/7/2022
Date of issue/Date of revision	: 9/7/2022
Date of previous issue	: No previous validation
Version	: 1
	Product Stewardship Blaser Swisslube AG
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

### Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 2	Expert judgment
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Expert judgment

References

### : Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.