

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 2

Revision: 04.12.2014

* **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

* **1.1 Product identifier**

* **Trade name** **BTM Bio Universal**

* **Article number:** 1127

* **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

* **Application of the substance / the mixture** Release Agent

* **1.3 Details of the supplier of the safety data sheet**

* **Manufacturer/Supplier:**

Remmers GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: +49(0)5432/83-0
Fax: +49(0)5432/3985

Remmers (UK) Limited
Unit B1 The Fleming Centre
West Sussex RH10 9NN
fon +44 (0) 1293 594 010
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* **Informing department:**

Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010
E-Mail: sales@remmers.co.uk

* **1.4 Emergency telephone number:**

during working hours:

U.K.: Tel.: +44 (0) 1293 594 010

sales@remmers.co.uk

Head Office Germany: Tel.: +49 (0)5432 83 187

info@remmers.de

after working hours: Tel.: +49 (0)171 21 34 091

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

SECTION 2: Hazards identification

* **2.1 Classification of the substance or mixture**

* **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

* **2.2 Label elements**

* **Labelling according to Regulation (EC) No 1272/2008** Void

* **Hazard pictograms** Void

* **Signal word** Void

* **Hazard statements** Void

* **2.3 Other hazards**

* **Results of PBT and vPvB assessment**

* **PBT:** Not applicable.

* **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

* **3.2 Chemical characterisation: Mixtures**

* **Description:** Mixture of the substances listed below with harmless additions.

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*** Dangerous components:**

CAS: 56-81-5	glycerol	2.5-5%
EINECS: 200-289-5	substance with a Community workplace exposure limit	
CAS: 67-56-1	methanol	≤0.5%
EINECS: 200-659-6	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311;	
Index number: 603-001-00-X	Acute Tox. 3, H331; STOT SE 1, H370	
Reg.nr.: 01-2119433307-44-XXXX		

* **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

*** 4.1 Description of first aid measures***** General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

* **After inhalation** Seek medical treatment in case of complaints.

* **After skin contact** If skin irritation continues, consult a doctor.

* **After eye contact** Rinse opened eye for several minutes under running water.

*** After swallowing**

Do not induce vomiting. In case of prolonged discomfort, see a doctor. If the patient is conscious, give water to drink.

*** 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

* **Information for doctor** symptomatic treatment

*** 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

*** 5.1 Extinguishing media***** Suitable extinguishing agents**

Foam

Carbon dioxide

Sand

Use fire fighting measures that suit the environment.

*** 5.2 Special hazards arising from the substance or mixture**

May be released in case of fire

carbon monoxides

Nitrogen oxides (NO_x)

*** 5.3 Advice for firefighters**

* **Protective equipment:** No special measures required.

* **Additional information** Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

*** 6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

*** 6.2 Environmental precautions:**

Do not allow to enter sewage system, surface or ground water.

Do not allow to enter the ground/soil.

Collect contaminated washing water for appropriate disposal.

*** 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

*** 6.4 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 information on disposal.

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SECTION 7: Handling and storage

- * **7.1 Precautions for safe handling** No special measures required.
- * **Information about protection against explosions and fires:** No special requirements.
- * **7.2 Conditions for safe storage, including any incompatibilities**
- * **Storage**
- * **Requirements to be met by storerooms and containers:** No special requirements.
- * **Information on storage in a common storage facility:** none
- * **Further information about storage conditions:**
 - Protect from frost.
 - Protect from light.
- * **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- * **Additional information about design of technical systems:** No further data; see item 7.
- * **8.1 Control parameters**
- * **Components with limit values that require monitoring at the workplace:**
 - CAS: 56-81-5 glycerol**
WEL Long-term value: 10 mg/m³
 - CAS: 67-56-1 methanol**
WEL Short-term value: 333 mg/m³, 250 ppm
Long-term value: 266 mg/m³, 200 ppm
Sk
- * **Additional information:** The lists that were valid during compilation were used as a basis.
- * **8.2 Exposure controls**
- * **Personal protective equipment**
- * **General protective and hygienic measures** Use skin protection cream for preventive skin protection.
- * **Respiratory equipment:**
 - Only during spraying without adequate removal by suction.
 - Particle-Filter P2.
- * **Protection of hands:**
 - Oil resistant gloves
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- * **Material of gloves**
 - Nitrile rubber, NBR
 - Neoprene gloves
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- * **Penetration time of glove material**
 - Break through time: max. 240 min (DIN EN 374).
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- * **Eye protection:** if there is a risk of splashes
- * **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- * **9.1 Information on basic physical and chemical properties**
- * **General Information**
- * **Appearance:**
 - Form:** Fluid

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Colour:	Yellowish
* Odour:	Characteristic
* Odour threshold:	Not determined.
* pH-value:	Not determined.
* Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	300 °C Not determined
* Flash point:	> 180 °C
* Inflammability (solid, gaseous)	Not applicable.
* Ignition temperature:	not applicable
* Decomposition temperature:	Not determined.
* Self-inflammability:	Product is not self-igniting.
* Danger of explosion:	Product is not explosive.
* Explosive Limits:	
Lower:	Not determined.
Upper:	Not determined.
* Vapour pressure:	Not determined.
* Density at 20 °C	0.88 g/cm ³
* Relative density	Not determined.
* Vapour density	Not determined.
* Evaporation rate	Not determined.
* Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
* Distribution coefficient (n-octanol/water):	Not determined.
* Viscosity:	
dynamic at 20 °C:	10 mPas
kinematic:	Not determined.
* 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- * **10.1 Reactivity** No further relevant information available.
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:**
No decomposition if handled and stored according to specifications.
- * **10.3 Possibility of hazardous reactions** No dangerous reactions known
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** No further relevant information available.
- * **10.6 Hazardous decomposition products:** None if used properly.

SECTION 11: Toxicological information

- * **11.1 Information on toxicological effects**
- * **Acute toxicity:** Based on available data, the classification criteria are not met.
- * **LD/LC50 values that are relevant for classification:**
 - Oral LD50 9551 mg/kg (mus) (ATE)
 - Dermal LD50 210526 mg/kg (ATE)
 - Inhalative LC50/4 h 2105 mg/l (ATE)
- * **Primary irritant effect:**
- * **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- * **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- * **Sensitisation:** Based on available data, the classification criteria are not met.
- * **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- * **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- * **Carcinogenicity** Based on available data, the classification criteria are not met.
- * **Reproductive toxicity** Based on available data, the classification criteria are not met.
- * **STOT-single exposure** Based on available data, the classification criteria are not met.
- * **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- * **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- * **12.1 Toxicity**
- * **Aquatic toxicity:** No further relevant information available.
- * **12.2 Persistence and degradability** No further relevant information available.
- * **Other information:** The product is biodegradable.
- * **12.3 Bioaccumulative potential** No further relevant information available.
- * **12.4 Mobility in soil** No further relevant information available.
- * **Additional ecological information:**
- * **General notes:** Generally not hazardous to water.
- * **12.5 Results of PBT and vPvB assessment**
- * **PBT:** Not applicable.
- * **vPvB:** Not applicable.
- * **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- * **13.1 Waste treatment methods**
- * **Recommendation** Must be specially treated in compliance with official regulations.
- * **European waste catalogue**
20 01 26* oil and fat other than those mentioned in 20 01 25
- * **Uncleaned packaging:**
- * **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- * **14.1 UN-Number**
- * **ADR, ADN, IMDG, IATA** Void
- * **14.2 UN proper shipping name**
- * **ADR, ADN, IMDG, IATA** Void
- * **14.3 Transport hazard class(es)**
- * **ADR, ADN, IMDG, IATA**
- * **Class** Void
- * **14.4 Packing group**
- * **ADR, IMDG, IATA** Void
- * **14.5 Environmental hazards:**
- * **Marine pollutant:** No
- * **14.6 Special precautions for user** Not applicable.
- * **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- * **Transport/Additional information:** Not a hazardous good according to the above regulations.
- * **UN "Model Regulation":** Void

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SECTION 15: Regulatory information

- * **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- * **National regulations**
- * **Other regulations, limitations and prohibition ordinances**
Observe the usual protective measures when working and for storage.
- * **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

- * **Relevant phrases**

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H370 Causes damage to organs.

- * **Department issuing data specification sheet:** Product Safety department / EHS

- * **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1