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

1.1 Product identifier

BG-Lure, BG-Sweetscent, Sweetscent

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

1.2.1 Relevant uses

Synergistic odour mixture which increases the efficacy of Biogents mosquito traps.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Biogents AG
Weißenburgstr. 22
93055 Regensburg / GERMANY
Phone
Fax +49-941-5699-2168
Homepage www.biogents.com
E-mail biogents@biogents.com

Address enquiries to

Technical information biogents@biogents.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

The product is required to be labelled in accordance with GHS/CLP-Directives.

Hazard pictograms

Signal word DANGER

Contains: l-(+)-lactic acid

Hexanoic acid

Hazard statements

H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

Biocide (528/2012/CE) contains:

34,59 g/100g l-(+)-lactic acid
Registration: -

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
20 - <40	l-(+)-lactic acid
	CAS: 79-33-4, EINECS/ELINCS: 201-196-2, Reg-No.: 01-2119474164-39-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315
20 - <40	Ammonium hydrogen carbonate
	CAS: 1066-33-7, EINECS/ELINCS: 213-911-5, Reg-No.: 01-2119486970-26-XXXX
	GHS/CLP: Acute Tox. 4: H302
5 - <10	Hexanoic acid
	CAS: 142-62-1, EINECS/ELINCS: 205-550-7
	GHS/CLP: Skin Corr. 1C: H314 - Eye Dam. 1: H318

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
Shield unaffected eye.

Ingestion Rinse out mouth and give plenty of water to drink.
In the event of symptoms seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Ammonia (NH3).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Use barrier skin cream.
Wash hands before breaks and after work.
Take off contaminated clothing and wash before reuse.
Do not eat or drink when working.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Keep container tightly closed und store it in a well-ventilated place.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
Ammonium hydrogen carbonate, CAS: 1066-33-7
Industrial, inhalative (dust), Acute - systemic effects: 160,7 mg/m³.
Industrial, dermal, Long-term - systemic effects: 57 mg/kg bw.
Industrial, inhalative (dust), Long-term - systemic effects: 62,5 mg/m³.
general population, dermal, Long-term - systemic effects: 34,2 mg/kg bw.
general population, inhalative (dust), Long-term - systemic effects: 13,33 mg/m³.
general population, inhalative (dust), Acute - systemic effects: 143,91 mg/m³.

PNEC

Substance
Ammonium hydrogen carbonate, CAS: 1066-33-7
soil, 74,9 mg/kg dw.
sediment (seaater), 0,01332 mg/kg dw.
sediment (freshwater), 0,1332 mg/kg dw.
sewage treatment plants (STP), 1347 mg/l.
seawater, 0,037 mg/l.
freshwater, 0,37 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7 mm Butyl rubber, >480 min (EN 374).
Skin protection	Not required under normal conditions.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid
Color	not determined
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents, strong acids and alkalies.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, > 2000 mg/kg.

Substance
l-(+)-lactic acid, CAS: 79-33-4
LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 3730 mg/kg (OECD 401).
Ammonium hydrogen carbonate, CAS: 1066-33-7
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: ~ 1576 mg/kg.
LC50, inhalativ (dust), Rat: > 4,74 mg/l/4,5h.
Hexanoic acid, CAS: 142-62-1
LD50, dermal, Rabbit: > 20000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg.

Serious eye damage/irritation
Toxicological data of complete product are not available.
Based on the available information, the classification criteria are fulfilled.
Risk of serious damage to eyes.
Calculation method

Skin corrosion/irritation
Toxicological data of complete product are not available.
Based on the available information, the classification criteria are fulfilled.
Irritant
Calculation method
Classification was carried out based on substance-specific concentration limits.

Respiratory or skin sensitisation
Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — single exposure
Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — repeated exposure
Does not contain a relevant substance that meets the classification criteria.

Mutagenicity
Does not contain a relevant substance that meets the classification criteria.

Reproduction toxicity
Does not contain a relevant substance that meets the classification criteria.

Carcinogenicity
Does not contain a relevant substance that meets the classification criteria.

Aspiration hazard
Does not contain a relevant substance that meets the classification criteria.

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
l-(+)-lactic acid, CAS: 79-33-4
LC50, (96h), Danio rerio: 320 mg/l (OECD 203).
EC50, (48h), Daphnia magna: 240 mg/l (OECD 202).
IC50, (72h), Pseudokirchneriella subcapitata: 3500 mg/l (OECD 201).
Ammonium hydrogen carbonate, CAS: 1066-33-7
LC50, (96h), Oncorhynchus mykiss: 63,4 mg/l.
EC50, (48h), Daphnia magna: 145,6 mg/l.
Hexanoic acid, CAS: 142-62-1
LC50, (96h), Pimephales promelas: 88 mg/l (ECOTOX Database).
EC50, (24h), Daphnia magna: 22 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 070413*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (1999/13/CE)	0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Modified position

SECTION 2 deleted: R 41: Risk of serious damage to eyes.

SECTION 2 deleted: R 38: Irritating to skin.

SECTION 2 deleted: Irritant

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 been added: Classification was carried out based on substance-specific concentration limits.

SECTION 11 been added: Irritant

SECTION 11 been added: Calculation method

SECTION 11 been added: Risk of serious damage to eyes.

SECTION 11 been added: Based on the available information, the classification criteria are fulfilled.