Safety Data Sheet

Akasil Antifoam TG 20

Issue date 13-May-2019 **Revision date** 13-May-2019 **Version** 4

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

1.1. Product Identifier

Product name Akasil Antifoam TG 20

Pure substance/mixture Mixture

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

Recommended Use No information available
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

BRB International BV
Branskamp 12
6014 CB Ittervoort
The Netherlands
☎ : 0031-475-560300

BRB SILICONE SYNTHESIS Sdn Bhd
No. 21D, Jalan Perigi Nanas 7/2, KS11,
Kawasan Perindustrian Pulau Indah,
42920 Pulau Indah,
Selangor Darul Ehsan, Malaysia.
☎ : 00603-3102-3278

BRB Central Eastern Europe Sp. z o.o.
ul. płk. Stanisława Dąbka 8
30-732 Krakow
Poland
☎ : 0048-12-4157922

For further information, please contact

Contact Point R&D
E-mail address MSDS@brbbv.com

1.4. Emergency telephone number

Emergency telephone +44 1235 239670 (NCEC 24/7) For additional emergency telephone numbers see section 16 of the safety data sheet.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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Serious eye damage/eye irritation	Category 2 - (H319)

2.2. Label Elements

Product Identifier

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Signal Word
WARNING

Hazard statements
H319 - Causes serious eye irritation
EUH208 - Contains 2-octyl-2H-isothiazol-3-one , May produce an allergic reaction

2.3. Other Hazards
No information available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Isotridecanol, branched, ethoxylated	-	69011-36-5	No data available	Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-5
Octamethylcyclotetrasiloxane	209-136-7	556-67-2	No data available	Flam. Liq. 3 (H226) Repr. 2 (H361f) Aquatic Chronic 4 (H413)	0.1-1
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	No data available	No data available	0.1-1
Decamethylcyclopentasiloxane	208-764-9	541-02-6	No data available	No data available	0.1-1
Bronopol	200-143-0	52-51-7	No data available	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	<0.1
2-octyl-2H-isothiazol-3-one	247-761-7	26530-20-1	No data available	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	<0.01

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a doctor.

Inhalation Remove to fresh air.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion Clean mouth with water and drink afterwards plenty of water.

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

Symptoms Causes serious eye irritation.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Use. Carbon dioxide (CO2). Extinguishing powder. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours

Hazardous combustion products Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Special danger of slipping by leaking/spilling product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Evacuate personnel to safe areas.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Cover liquid spill with sand, earth or other non-combustible absorbent material. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Use personal protective equipment as required. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Avoid contact with skin, eyes or clothing.

General hygiene considerations
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Never use pressure to empty; drum is not a pressure vessel.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits .

Chemical name	European Union	United Kingdom	France	Spain	Germany
Bronopol 52-51-7	-	-	-	-	Skin
2-octyl-2H-isothiazol-3-one 26530-20-1	-	-	-	-	TWA: 0.05 mg/m³ Ceiling / Peak: 10 ppm Ceiling / Peak: 54 mg/m³ Skin
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
2-octyl-2H-isothiazol-3-one 26530-20-1	Skin STEL 0.05 mg/m³ TWA: 0.05 mg/m³ Ceiling 0.05 mg/m³	Skin STEL: 0.1 mg/m³ TWA: 0.05 mg/m³	-	-	-

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering controls Eyewash stations.

Personal Protective Equipment

Eye/face Protection Wear safety glasses with side shields (or goggles).

Hand protection Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and Body Protection Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Respiratory protection None under normal use conditions.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	No information available	**Odour**	characteristic
Colour	white	**Odour threshold**	No information available

Property	**Values**	**Remarks • Method**
pH		No information available
Melting point/freezing point		No information available
Boiling point / boiling range	approx. 100 °C / 212 °F	
Flash Point	> 100 °C / > 212 °F	
Evaporation Rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit	No data available	
Vapour pressure	No data available	@ 20º C
	< 1000.0 hPa	@ 50°C
Vapour Density		No information available
Specific gravity	approx. 1.000 g/cm3	@ 20°C
Water solubility	100.0 %	@ 20°C
Solubility(ies)		No information available
Partition coefficient		No information available
Autoignition Temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity	No data available	@ 40 °C
Dynamic viscosity	No data available	@ 40 °C
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

Incompatible with oxidising agents. Acids. Bases.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.
Eye Contact No data available.
Skin contact No data available.
Ingestion No data available.

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isotridecanol, branched, ethoxylated	> 5000 mg/kg (Rat)	> 2000 mg/kg (rabbit)	
Octamethylcyclotetrasiloxane	= 1540 mg/kg (Rat)	= 794 µL/kg (Rabbit)	= 36 g/m³ (Rat) 4 h
Bronopol	approx. 305 mg/kg (Rat OECD 401)	> 2000 mg/kg (Rat OECD 402)	> 0.588 mg/l (Rat 4 h)
2-octyl-2H-isothiazol-3-one	= 550 mg/kg (Rat)	= 690 mg/kg (Rabbit)	

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitisation No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

SECTION 12: Ecological information

12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information

Acute (short-term) algae toxicity

EC50	No information available
EC0	No information available
IC50	No information available
IC0	No information available
ErC50	No information available
EbC50	No information available

Acute (short-term) fish toxicity

LC50	No information available
LC0	No information available
EC50	No information available
EC0	No information available

Acute (short-term) aquatic invertebrate toxicity

EC50	No information available
EC0	No information available

Chronic (long-term) algae toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) fish toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC	No information available
LOEC	No information available

Chemical name	Algae/aquatic plants	Fish	Crustacea
Isotridecanol, branched, ethoxylated	EC50: > 1 - 10 mg/l (Desmodesmus subspicatus 72h OECD 201); EC10: > 0.1 - 1 mg/l (72h)	LC50: > 1 - 10 mg/l (Cyprinus carpio 96h OECD 203); LC50: > 1 - 10 mg/l (Leuciscus idus 96h DIN 38412-15); NOEC: approx. 1.73 mg/l	EC50: > 1 -10 mg/l (Daphnia Magna 48h OECD 202); NOEC: approx. 1.36 mg/l (Daphnia magna 504h)
Bronopol	EC50: approx. 0.068 mg/l (72 h OECD 201); NOEC: approx. 0.0025 mg/l (72 h OECD 201)	LC50: approx. 3 mg/l (Oncorhynchus mykiss 96 h OECD 203); NOEC: approx. 2.61 mg/l (Oncorhynchus mykiss 504 h OECD 210)	EC50: approx. 1.04 mg/l (daphnia 48 h OECD 202); NOEC: approx. 0.06 mg/l (Daphnia 672 h OECD 211)
2-octyl-2H-isothiazol-3-one	EC50: approx. 0.084 mg/l (Scenedesmus subspicatus 72h OECD 201); NOEC: approx. 0.004 mg/l (72h OECD 201)	LC50: approx. 0.036 mg/l (Oncorhynchus mykiss 96h OECD 203); NOEC: approx. 0.022 mg/l (Oncorhynchus mykiss 672h OECD 210)	EC50: approx. 0.42 mg/l (Daphnia magna 48h OECD 202); NOEC: approx. 0.002 mg/l (Daphnia Magna 504h OECD 211)

12.2. Persistence and degradability

Product Information

Biodegradation	No information available
BOD	No information available
ThCO2	No information available
DOC	No information available

Chemical name	Biodegradation
Isotridecanol, branched, ethoxylated 69011-36-5	Biodegradation: > 60 % (672h OECD 301B)
Bronopol 52-51-7	Biodegradation: > 70 % (OECD 301B); Biodegradation: 63.5 % (OECD 314)

12.3. Bioaccumulative potential

Product Information

Bioaccumulation (factor) No information available

Chemical name	Partition coefficient
Bronopol	0.38
2-octyl-2H-isothiazol-3-one	2.92

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

ADR

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated

Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-
Tunnel restriction code	-
Limited quantity (LQ)	-
ADR Hazard Id (Kemmler Number)	-
Note:	-

RID

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-
Limited quantity (LQ)	-
Note:	-

IMDG

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Subsidiary hazard class	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
EmS-No	-
Limited quantity (LQ)	-
Note:	-
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No information available

IATA

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Subsidiary hazard class	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
ERG Code	-
Limited quantity (LQ)	-
Note:	-

SECTION 15: Regulatory information

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

National Regulations

See section 8 for national exposure control parameters

Germany

Water hazard class (WGK)	slightly hazardous to water (WGK 1)
Storage class	10

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States), Europe (EINECS/ELINCS/NLP).

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Emergency telephone number

Czech Republic	+420 228 882 830 (NCEC 24/7)
Denmark	+45 8988 2286 (NCEC 24/7)
Finland	+358 9 7479 0199 (NCEC 24/7)
France	+33 1 72 11 00 03 (NCEC 24/7)
Germany	+49 89 220 61012 (NCEC 24/7)***
Greece	+30 21 1198 3182 (NCEC 24/7)
Italy	+39 02 3604 2884 (NCEC 24/7)
Netherlands	+31 10 713 8195 (NCEC 24/7)
Norway	+47 2103 4452 (NCEC 24/7)
Poland	+48 22 307 3690 (NCEC 24/7)
Portugal	+351 30880 4750 (NCEC 24/7)
Spain	+34 91 114 2520 (NCEC 24/7)
Sweden	+46 8 566 42573 (NCEC 24/7)
Turkey	+90 212 375 5231 (NCEC 24/7)
Middle East	+973 1619 8321 (NCEC 24/7)
Middle East / Africa	+44 1235 239671 (NCEC 24/7)

Revision note See the red text with asterisks in this safety data sheet for the latest changes.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet