

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Levasil BF16 L

Version 1

Revision Date 30.05.2016

Print Date 14.06.2016

DE / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : Levasil BF16 L

Chemical characterization : Amorphous Silica, aqueous colloidal solution.

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

Use of the Substance/Mixture : Specific use(s): Clarification of wine and other beverages

1.3 Details of the supplier of the safety data sheet

Company : Akzo Nobel Pulp and Performance
Chemicals AB
SE 445 80 Bohus
Sweden

Telephone : +4631587000
Telefax : +4631587400
E-mail address : psra.ppc@akzonobel.com

1.4 Emergency telephone number

Emergency telephone number : +31 570 679 211 (24 hours emergency response number)
Worldwide use / 09 471 977 (Myrkytystietokeskus) Finland only / 020 99 60 00 (Kemiakuten) Sweden only / 0145 42 59 59 (ORFILA / INRS) France only

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

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No further data available.

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous substance

Chemical name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Remarks	: No ingredients according to the criteria in Regulation (EC) No. 1907/2006 (Annex II).			
	WEL substance			
Silicon dioxide, amorphous	OEL	7631-86-9 231-545-4 01-2119379499-16		30 - 60

OEL : OEL: Occupational exposure limit.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Status : Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing and shoes.
Rinse with water.
- In case of eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting / Specific hazards arising from the chemical : No hazards to be specially mentioned.

Combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : No conditions to be specially mentioned.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated

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areas and containers place.
Store in closed dark containers made of anti-corrosive material.

Advice on common storage : No special restrictions on storage with other products.

German storage class : Non Combustible Liquids

Minimum storage temperature: : Avoid temperatures below: 5 °C

Maximum storage temperature: : 50 °C

Other data

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Silicon dioxide, amorphous	7631-86-9	AGW	4 mg/m3	2013-09-19	DE TRGS 900	Inhalable fraction
	Further information	:	DFG: Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission). 2: Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). Y: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child Silica			
Silicon dioxide, amorphous	7631-86-9	TWA	20 Million particles per cubic foot	2012-07-01	OSHA Z-3	
	Further information	:	a: Based on impinger samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c Silica			
		TWA	80mg/m3 / %SiO2	2012-07-01	OSHA Z-3	
	Further information	:	Silica			
		TWA	6 mg/m3	2013-10-08	NIOSH REL	
	Further information	:	Silica			
		PEL	6 mg/m3	2014-11-26	CAL PEL	

ACGIH:	American Conference of Governmental Industrial Hygienists
AGW:	Arbeitsplatzgrenzwert
BEI:	Biological Exposure Index
MAC:	Maximum Allowable Concentration
NIOSH:	National Institute for Occupational Safety and Health
OEL:	OEL: Occupational exposure limit.
STEL:	Short term exposure limit
TRGS:	Technische Regel für Gefahrstoffe
TWA:	Time Weighted Average

8.2 Exposure controls

Engineering controls

Effective exhaust ventilation system

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : PVC
Rubber gloves

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form	: liquid
Colour	: white
Odour	: odourless
Odour Threshold	: No data available

Safety data

pH	: 9 - 10
Melting point/range	: ca. 0 °C

Boiling point/boiling range	: ca. 100 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: The product is not flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Vapour pressure	: ca. 23 hPa at 20 °C
Relative vapour density	: No data available
Relative density	: 1,100 - 1,400
Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, dynamic	: < 20 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidising.

9.2 Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Avoid drying out of the solution as this can lead to a build up of dust.

10.5 Incompatible materials

Materials to avoid : Copper
Mild steel
Aluminium

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Thermal decomposition : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product information:

Acute toxicity : Not classified based on available information.

Skin corrosion/irritation : Not classified based on available information.

Serious eye damage/eye irritation : Not classified based on available information.

Respiratory or skin sensitisation : Respiratory sensitisation: Not classified based on available information.
Skin sensitisation: Not classified based on available information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

Reproductive toxicity : Not classified based on available information.

STOT - single exposure : Not classified based on available information.

STOT - repeated exposure : Not classified based on available information.

Aspiration hazard : Not classified based on available information.

Further information : Information given is based on data on the components and the toxicology of similar products.

Test result

Acute oral toxicity : LD50: > 5 000 mg/kg
Species: Rat
The value is estimated from tests on similar products.

Respiratory or skin sensitisation : Result: Did not cause sensitisation on laboratory animals.
Method: (Magnusson-Kligman):
The value is estimated from tests on similar products.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test
Result: negative
Method: OECD Test Guideline 471
The value is estimated from tests on similar products.

Silicon dioxide, amorphous

Acute toxicity:

Acute oral toxicity : LD50: > 10 000 mg/kg
Species: Rat

SECTION 12: ECOLOGICAL INFORMATION

Product information:

Ecotoxicology Assessment

Additional ecological information : None known.

12.1 Toxicity

Test result

Toxicity to fish : LC50: > 5 000 mg/l
Exposure time: 96 h
Species: Danio rerio (zebra fish)
The value is estimated from tests on similar products.

Toxicity to daphnia and other aquatic invertebrates : EC50: 7 600 mg/l
Exposure time: 48 h
Species: Ceriodaphnia dubia (water flea)
The value is estimated from tests on similar products.

Toxicity to algae : NOEC: 60 mg/l
Exposure time: 48 h
Species: Selenastrum capricornutum (green algae)
The value is estimated from tests on similar products.

EC50: 120 mg/l
Exposure time: 48 h
Species: Selenastrum capricornutum (green algae)
The value is estimated from tests on similar products.

EC10: 140 mg/l
Exposure time: 48 h
Species: Selenastrum capricornutum (green algae)
The value is estimated from tests on similar products.

12.2 Persistence and degradability

Product information:

Biodegradability : Result: Not applicable
inorganic

Components : No information available.

12.3 Bioaccumulative potential

Product information:

Bioaccumulation : No bioaccumulation is expected.

Components : No information available.

12.4 Mobility in soil

Product information:

Mobility : No test results
Under extreme circumstances, transport from earth to water
may take place.

Distribution among : Transport to air is not expected.
environmental compartments

Components : No information available.

12.5 Results of PBT and vPvB assessment

Product information:

PBT and vPvB assessment : This substance/mixture contains no components considered
to be either persistent, bioaccumulative and toxic (PBT), or
very persistent and very bioaccumulative (vPvB) at levels of
0.1% or higher.

Components : No information available.

12.6 Other adverse effects

Product information:

Biochemical Oxygen : No data available
Demand (BOD)

Components : No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste
handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

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Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

Major Accident Hazard Legislation : Directive 96/82/EC does not apply

: Seveso Directive
2012/18/EU
Not applicable

Water contaminating class (Germany) : nwg not water endangering

TA Luft List (Germany) :

- Total dust: Not applicable
- Inorganic substances in powdered form: Not applicable
- Inorganic substances in vapour or gaseous form: Not applicable
- Organic Substances: Not applicable
- Carcinogenic substances: Not applicable
- Mutagenic: Not applicable
- Toxic to reproduction: Not applicable

Notification status

TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
DSL : YES. All components of this product are on the Canadian DSL
AICS : YES. On the inventory, or in compliance with the inventory
NZIoC : YES. On the inventory, or in compliance with the inventory
ENCS : YES. On the inventory, or in compliance with the inventory
ISHL : YES. On the inventory, or in compliance with the inventory
KECI : YES. On the inventory, or in compliance with the inventory
PICCS : YES. On the inventory, or in compliance with the inventory
IECSC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

Further information

This product is to be considered as a preparation according to EU-legislation.

15.2 Chemical safety assessment

Silicon dioxide, amorphous : A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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