



# SAFETY DATA SHEET

## BIZERBA Plastic Cleaner

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 23.07.2014

#### 1.1. Product identifier

Product name BIZERBA Plastic Cleaner  
 Specification No. L03000000106  
 Article no. 95948600000 (15mL), 95948200000 (250mL)

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

Product group Degreasing and cleaning agent.  
 Relevant identified uses  
 SU21 Consumer uses: Private households (= general public = consumers)  
 SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)  
 PC35 Washing and cleaning products (including solvent based products)  
 PROC10 Roller application or brushing  
 PROC11 Non-industrial spraying  
 ERC8A Wide dispersive indoor use of processing aids in open systems  
 ERC8D Wide dispersive outdoor use of processing aids in open systems  
 Uses advised against No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

##### Distributor

Company name Kleinmann GmbH  
 Postal address Am Trieb 13  
 Postcode D-72820  
 City Sonnenbuehl  
 Country Germany  
 Tel +49(0)7128/9292-15  
 Fax +49(0)7128/9292-415  
 E-mail chemie@kleinmann.net  
 Website http://www.kleinmann.net  
 Enterprise no. DE 146 487

#### 1.4. Emergency telephone number

Emergency telephone 8-12, Mo.-Fr.:+49(0)7128/9292-15

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]  
 Skin Sens. 1;H317;  
 Eye Dam. 1;H318;  
 Aquatic Chronic 2;H411;

#### 2.2. Label elements

#### Hazard Pictograms (CLP)



Composition on the label	C12-C14 Alkyl alcohol ethoxylate:< 5 %, Dioctylsulfosuccinat, sodium salt:< 5 %, Orange terpenes:< 5 %
Signal word	Danger
Hazard statements	H317 May cause an allergic skin reaction. H318 Causes Serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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 or doctor/physician.

### 2.3. Other hazards

Description of hazard	Risk of serious damage to eyes. May cause permanent damage to eyes, especially if the product is not washed away IMMEDIATELY. May cause sensitization by skin contact. Prolonged or repeated exposure may decrease the skin with symptoms like redness, smarting, itching, cracking of skin and possible eczema. Consumption of larger quantities can result in nausea, vomiting and stomach pains. Inhalation of high contents may cause headache, nausea and dizziness. Inhalation of aerosol/spray mist may cause slight irritation in the upper respiratory tract with symptoms like coughing and sneezing.
Environmental effects	This product does not contain any PBT or vPvB substances. Toxic to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
C12-C14 Alkyl alcohol ethoxylate	CAS no.: 68439-50-9 EC no.: 932-106-6 Registration number: 01-2119487984-16-xxxx	Xn,Xi; R22,R41 Acute tox. 4;H302; Eye Dam. 1;H318; Aquatic Chronic 3;H412;	< 5 %
Dioctylsulfosuccinat, sodium salt	CAS no.: 577-11-7 EC no.: 209-406-4	M-factor:1 Xi; R38,R41 Skin Irrit. 2;H315; Eye Dam. 1;H318;	< 5 %
Triethanolamine	CAS no.: 102-71-6 EC no.: 203-049-8 Registration number: 02-2119675504-34-xxxx		< 5 %
Orange terpenes	CAS no.: 8028-48-6 EC no.: 232-433-8 Registration number: 02-2119675252-39-XXXX	Xn,Xi,N; R10,R38,R43, R50/53,R65 Flam. Liq. 3;H226; Asp. tox 1;H304; Skin Sens. 1;H317; Skin Irrit. 2;H315; Aquatic Chronic 1;H410;	< 5 %
Substance comments	Ingredients: 0-5%: anionic surfactant , nonionic surfactant , perfume (Orange		

Terpene) .

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

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

Delayed symptoms and effects	May produce an allergic reaction.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Other Information	In case of unconsciousness or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is combustible, but not flammable. May ignite if heated over flash point.
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### 5.3. Advice for firefighters

Personal protective equipment	Wear personal protective equipment, see section 8. Avoid breathing of combustion gases.
Fire fighting procedures	Containers close to fire should be removed or cooled with water. Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Wear necessary protective equipment. For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.
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### 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.
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### 6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Avoid inhalation of aerosols and contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Always store proper, out of the reach of children and not together with food, feed, medicine and the like. Storage temperature: 15-25°C. Store above freezing.

### Conditions for safe storage

Storage Stability Durability: 24 months.

### 7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Triethanolamine	CAS no.: 102-71-6 EC no.: 203-049-8 Registration number: 02-2119675504-34-xxxx	8-hour TWA: 3,1 mg/m <sup>3</sup> 8-hour TWA: 0,5 ppm	2005
Orange terpenes	CAS no.: 8028-48-6 EC no.: 232-433-8 Registration number: 02-2119675252-39-XXXX	8-hour TWA: 75 ppm	2007

#### DNEL / PNEC

Summary of risk management measures, human Data lacking.

Summary of risk management measures, environment Data lacking.

### 8.2. Exposure controls

Recommended monitoring procedures Not known.

Limitation of exposure on workplace Provide eyewash, quick drench. All handling to take place in well-ventilated area.

## Safety signs



### Respiratory protection

Respiratory protection If ventilation is insufficient, use a respirator with type A (EN 141) gas filter and P2 particle filter (EN 143/EN 149).

### Hand protection

Hand protection Protective gloves are recommended. F.eks. af nitrilgummi, neoprengummi eller butylgummi.

Breakthrough time Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours.

The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus

the breakthrough time reduced.  
 The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C.  
 The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

## Eye / face protection

Eye protection Use approved safety goggles or face shield. (EN 166).

## Thermal hazards

Thermal hazards None specific.

## Appropriate environmental exposure control

Environmental exposure controls See section 6.

## Other Information

Other Information No recommendation given.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Yellowish.
Odour	Citrus.
Comments, Odour limit	No data recorded.
pH (as supplied)	Value: ~ 11
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	No data recorded.
Flash point	Value: ~ 65 °C
Comments, Evaporation rate	No data recorded.
Comments, Explosion limit	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Specific gravity	Value: ~ 1,0 g/ml
Comments, Bulk density	Not relevant.
Comments, Solubility	No data recorded.
Comments, Partition coefficient: n-octanol / water	No data recorded.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not relevant.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

### 9.2. Other information

Content Of Voc Value: 31,5 g/l

### Other physical and chemical properties

Comments No data recorded.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions See section 10.4 and section 10.5.

### 10.4. Conditions to avoid

Conditions to avoid Extremes of temperatures.

### 10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates).

### 10.6. Hazardous decomposition products

Hazardous decomposition products During fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) are formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological data for substances

Substance	Orange terpenes
LD50 oral	Value: 4400 mg/kg Animal test species: Rat
LD50 dermal	Value: > 5000 mg/kg Animal test species: Rabbit
Acute toxicity	Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin: Risk of sensitisation or allergic reactions among sensitive individuals. Eye: May cause temporary eye irritation. Ingestion: Harmful: may cause lung damage if swallowed.

#### Potential acute effects

Inhalation	Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, nausea and in serious cases unconsciousness. Inhalation of aerosol/spray mist may cause slight irritation in the upper respiratory tract with symptoms like coughing and sneezing.
Skin contact	May cause sensitization by skin contact with symptoms like smarting, pains, redness and blistering. Prolonged or repeated exposure may degrease the skin with symptoms like redness, smarting, itching, cracking of skin and possible eczema.
Eye contact	Risk of serious damage to eyes. Eye contact may cause lacrimation, redness, smarting and discomfort. May cause permanent damage to eyes, especially if the product is not washed away IMMEDIATELY. Vapour or spray may cause eye damage, impaired sight or blindness.
Ingestion	Consumption of larger quantities can result in nausea, vomiting and stomach pains.

#### Delayed effects / repeated exposure

Sensitisation	May cause sensitization by skin contact with symptoms like smarting, pains, redness and blistering.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity	The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
Aquatic, comments	No data available for the product.

#### Toxicological data for substances

Substance	Orange terpenes
Acute aquatic, fish	Value: 0,72 mg/l Method of testing: EC50

Acute aquatic, algae	Duration: 96h Value: 8 mg/l Method of testing: LC50 Species: Algae
Acute aquatic, Daphnia	Duration: 72h Value: 0,421 mg/l Method of testing: LC50 Species: Daphnia
Mobility, description	Duration: 72h Mobility, description: The product is immiscible with water and will spread on the water surface.
Persistence and degradability	All organic components are considered biodegradable.
Bioaccumulation	The product contains potentially bioaccumulating substances.

## 12.2. Persistence and degradability

Persistence and degradability	All organic components are considered biodegradable.
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## 12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation: Is not expected to be bioaccumulable.
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## 12.4. Mobility in soil

Mobility	The product is miscible with water. May spread in water systems. May penetrate into the ground and pollute the groundwater.
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## 12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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## 12.6. Other adverse effects

Environmental details, summation	Product is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not dispose of residues and waste down the drains. Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	No
Packaging classified as hazardous waste	No
EWC waste code	EWC: 200129 detergents containing dangerous substances
Other Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

## SECTION 14: Transport information

### 14.1. UN number

Comments	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

Comments	Not relevant.
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### 14.4. Packing group

### 14.5. Environmental hazards

ADR	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
RID	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.

IMDG	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG Marine pollutant	Ja

#### 14.6. Special precautions for user

IMDG Additional information	code separation group: NONE
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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

##### Additional information.

Additional information.	Not relevant.
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### SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.
Other Label Information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). EH40/2005, Workplace exposure limits 2005, with amendments.

#### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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### SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Sens. 1; H317; Eye Dam. 1; H318; Aquatic Chronic 2; H411;
List of relevant R-phrases (under headings 2 and 3).	R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R43 May cause sensitization by skin contact. R65 Harmful: may cause lung damage if swallowed. R22 Harmful if swallowed. R10 Flammable. R41 Risk of serious damage to eyes.
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H412 Harmful to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways. H226 Flammable liquid and vapour.



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	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.
Training advice	No particular training or education is required but the user must be familiar with this SDS.
Information which has been added, deleted or revised	New safety data sheet.
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	MP