



SAFETY DATA SHEET

BIZERBA LABEL REMOVER

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 09.04.2014

1.1. Product identifier

Product name BIZERBA LABEL REMOVER
 Specification No. L03000000037
 Article no. 95948500000 (15mL), 95948100000 (250mL)

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

Product group Label remover
 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
 ERC8B Wide dispersive indoor use of reactive substances 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

Manufacturer

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 Irrit. 2;H315;
 Aquatic Chronic 1;H410;
 Asp. tox 1;H304;
 Skin Sens. 1;H317;
 Flam. Liq. 3;H226;
 Substance / mixture hazardous properties For further information, please refer to section 11.

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label	Orange terpenes:60 - 100 %
Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P262 Do not get in eyes, on skin, or on clothing. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting.

2.3. Other hazards

Description of hazard	Ingestion may cause some of the product to enter the lungs and cause chemical pneumonitis. The risk increases with vomiting, which may occur spontaneously due to irritation of the mucous membranes. Inhalation of oil spray mist/aerosols may even in small amounts cause serious chemical pneumonia.
Health effect	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Splashes in the eyes may cause redness and irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.
Environmental effects	See section 11 for additional information on health hazards. This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
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;	60 - 100 %

Substance comments	The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing

Ingestion	during transport to hospital. Bring these instructions. Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.
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4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	As described in section 2.2 and 2.3.
Delayed symptoms and effects	May produce an allergic reaction.

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

Other Information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. May ignite at high temperature. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. During fire, gases hazardous to health may be formed.
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5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Look out! The product is hazardous to your health. 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. Provide ventilation and confine spill. Do not allow runoff to sewer. Do not let washing down water contaminate ponds or waterways. 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	Smaller quantities of residue may be collected by an absorbent. Dam and absorb spillages with sand, earth or other non-combustible material.
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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 spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Keep away from heat, sparks and open flame. Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. Risk of vapour concentration on the floor and in low-lying areas.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from heat, sparks and
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open flame. Store above freezing.

Conditions for safe storage

Storage Temperature Value: 0-35 °C.
Storage Stability Durability: 36 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
Orange terpenes	CAS no.: 8028-48-6 EC no.: 232-433-8 Registration number: 02-2119675252-39-XXXX		

DNEL / PNEC

Summary of risk management measures, human Data lacking.

Summary of risk management measures, environment Data lacking.

8.2. Exposure controls

Limitation of exposure on workplace All handling to take place in well-ventilated area. Mechanical ventilation may be required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety signs



Respiratory protection

Respiratory protection In case of inadequate ventilation use suitable respirator. Use respiratory equipment with combination filter, type A2/P2.

Hand protection

Hand protection Protective gloves should be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile.

Eye / face protection

Eye protection Eye protection is not required under normal conditions.

Skin protection

Skin protection (except hands) Wear apron or protective clothing in case of contact.

Thermal hazards

Thermal hazards See section 5.

Appropriate environmental exposure control

Environmental exposure controls See section 6.

Other Information

Other Information Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Use appropriate skin cream to prevent drying of skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless to pale yellow.
Odour	Citrus.
Comments, Odour limit	No data recorded.
Comments, pH (as supplied)	No data recorded.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	No data recorded.
Boiling point / boiling range	Value: 177 °C
Flash point	Value: 53,4 °C
Comments, Evaporation rate	No data recorded.
Explosion limit	Value: 0,7-6,1 Vol%
Vapour pressure	Value: 1,4 mm Hg
Comments, Vapour density	No data recorded.
Specific gravity	Value: ~ 0,84 g/mL
Comments, Bulk density	Not relevant.
Comments, Solubility	No data recorded.
Comments, Partition coefficient: n-octanol / water	No data recorded.
Comments, Spontaneous combustability	No data recorded.
Comments, Decomposition temperature	No data recorded.
Comments, Viscosity	Not relevant.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Physical hazards

Solvent content	Value: 840 g/L (VOC)
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	See section 10.4 and section 10.5.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid frost.
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10.5. Incompatible materials

Materials to avoid	Avoid alkalis, strong acids and heat.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Fire or high temperatures create: Flammable gases/vapours/fumes.
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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

Acute toxicity	Animal test species: Rabbit Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin: Risk of sensitisation or allergic reactions among sensitive individuals. Eye: Vapour or splashes in the eye may cause irritation, redness, smarting and discomfort. Ingestion: Harmful: may cause lung damage if swallowed.
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Other information regarding health hazards

General	This chemical can be hazardous when inhaled and/or touched.
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Potential acute effects

Inhalation	Aerosols irritate the respiratory system, and may cause coughing and difficulties in breathing. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. At high concentrations, lung oedema may occur after a few hours and up to several days without symptoms.
Skin contact	Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or frequent contact may cause redness, itching, irritation, eczema, skin cracking and oil acne.
Eye contact	Direct contact may irritate.
Ingestion	May cause discomfort if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Delayed effects / repeated exposure

Sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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SECTION 12: Ecological information

12.1. Toxicity

Toxicological data for substances

Substance	Orange terpenes
Acute aquatic, fish	Value: 0,72 mg/l Method of testing: EC50 Duration: 96h
Acute aquatic, algae	Value: 8 mg/l Method of testing: LC50 Species: Algae Duration: 72h
Acute aquatic, Daphnia	Value: 0,421 mg/l Method of testing: LC50 Species: Daphnia Duration: 72h
Mobility, description	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	No data available on bioaccumulation.

12.2. Persistence and degradability

Persistence and degradability	There are no data on the degradability of this product.
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12.3. Bioaccumulative potential

Bioaccumulative potential	No information required.
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12.4. Mobility in soil

Mobility	The product is immiscible with water and will spread on the water surface.
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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 For this product no classification is required for environmental hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 200113 solvents
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

ADR	2319
RID	2319
IMDG	2319
ICAO/IATA	2319

14.2. UN proper shipping name

ADR	TERPENE HYDROCARBONS, N.O.S. (Orange terpens)
RID	TERPENE HYDROCARBONS, N.O.S. (Orange terpens)
IMDG	TERPENE HYDROCARBONS, N.O.S. (Orange terpens)
ICAO/IATA	TERPENE HYDROCARBONS, N.O.S. (Orange terpens)

14.3. Transport hazard class(es)

ADR	3
Hazard no.	30
RID	3
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

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	Yes

14.6. Special precautions for user

IMDG Additional information	Code Separation Group: NONE.
EmS	F-E, S-D
Special safety precautions for user	Not relevant.

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

Additional information. Not relevant.

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]	Flam. Liq. 3; H226; Asp. tox 1; H304; Skin Irrit. 2; H315; Skin Sens. 1; H317; Aquatic Chronic 1; H410;
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. R10 Flammable.
List of relevant H-phrases (Section 2 and 3).	H304 May be fatal if swallowed and enters airways. H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very 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. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Information which has been added, deleted or revised	New safety data sheet.
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	MP