



SAFETY DATA SHEET

Label remover spray

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 16.01.2015

1.1. Product identifier

Product name Label remover spray
Specification No. L10000000038
Article no. DF1220

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

Product group Aerosols
Use of the substance/preparation 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)
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]
Flam Aerosol 1;H222;
H229;
Skin Irrit. 2;H315;
Eye Irrit. 2;H319;
STOT SE3;H336;
Aquatic Chronic 2;H411;

Substance / mixture hazardous Pressurized container: Do not pierce or burn, even after use.

properties

Do not expose to temperatures exceeding 50 °C/122 °F.

2.2. Label elements**Hazard Pictograms (CLP)**

Composition on the label

Propan-2-ol

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 EUH 208 Contains D-Limonen. May produce an allergic reaction.
 P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P260 Do not breathe spray.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Precautionary statements

2.3. Other hazards

Description of hazard

Skin contact: May be slightly irritating on protracted or repeated exposure.
 Skin contact may cause redness, smarting and itching.
 Vapour or splashes to the eyes may cause redness, smarting and discomfort.
 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.
 Aerosol containers can explode when heated, due to excessive pressure build-up.
 Extremely flammable.

Environmental effects

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Substance	Identification	Classification	Contents
Hydrocarbons, C6-C7, alkanes, isoalkanes, cyclics, < 5% n-hexane	EC no.: 921-024-6 Registration number: 01-2119475514-35-xxxx	Xn,Xi,F,N; R11,R38, R51/53,R65,R67 Flam. Liq. 2;H225; Asp. tox 1;H304; Aquatic Chronic 2;H411; Skin Irrit. 2;H315; STOT SE3;H336;	85 - 90 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0	F; R11 Xi; R36 R67	10 - 12,5 %

	Registration number: 01-2119457558-25-XXXX Synonyms: Propan-2-ol	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	
CARBON DIOXIDE	CAS no.: 124-38-9 EC no.: 204-696-9		1 - 2,5 %
n-Hexane	CAS no.: 110-54-3 EC no.: 203-777-6 Index no.: 601-037-00-0 Synonyms: n-Hexane	F; R11 Rep 3; R62 Xn; R48/20, R65 Xi; R38 R67 N; R51, R53 Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	0,5 - 1 %
Cyclohexane	CAS no.: 110-82-7 EC no.: 203-806-2 Index no.: 601-017-00-1 Synonyms: Cyclohexane	F; R11 Xn; R65 Xi; R38 R67 N; R50, R53 Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0,5 - 1 %
(R)-p-Mentha-1,8-diene	CAS no.: 5989-27-5 EC no.: 227-813-5 Index no.: 601-029-00-7 Registration number: 01-2119529223-47-xxxx	R10 R43 Xi; R38 N; R50, R53 Flam. Liq. 3; H226; Flam. Liq. 3; H226; Skin Irrit. 2; H315; Skin Irrit. 2; H315; Skin Sens. 1; H317; Skin Sens. 1; H317; Aquatic Acute 1; H400; Aquatic Acute 1; H400; Aquatic Chronic 1; H410; Aquatic Chronic 1; H410;	0,1 - 0,5 %
Substance comments	The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16. >30%: alifatic hydrocarbons , PARFUM (D-Limonen, Citral)		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove victim immediately from source of exposure.
Inhalation	Move the exposed person to fresh air at once. Call a POISON CENTER or doctor/physician if you feel unwell.
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 or eyewash solution for up to 10 minutes.
Ingestion	Rinse mouth with water. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Do not induce vomiting. Consult a physician for specific advice.

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

Acute symptoms and effects As described in section 2.2, 2.3 and 11.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Improper 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

Fire and explosion hazards Aerosol containers can explode when heated, due to excessive pressure build-up. Gases that are dangerous to health may be formed in a fire: carbon monoxide (CO) , carbon dioxide (CO₂) .

5.3. Advice for firefighters

Personal protective equipment	Wear personal protective equipment, see section 8. Avoid breathing of combustion gases. Wear self contained breathing apparatus during fire fighting.
Fire fighting procedures	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures For personal protection, see section 8. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Environmental precautionary measures Contain spillages with sand, earth or any suitable adsorbent material. 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.

6.3. Methods and material for containment and cleaning up

Cleaning method Clean contaminated area with oil-removing material. For waste disposal, see section 13.

6.4. Reference to other sections

Other instructions See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid contact with skin and eyes. 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. Take precautionary measures against static discharges. Do not eat, drink or smoke when using the product. Wash hands before breaks and before smoking, eating or drinking.

7.2. Conditions for safe storage, including any incompatibilities

Storage Aerosol cans: Must not be exposed to direct sunlight or temperatures above

50°C. Always store proper, out of the reach of children and not together with food, feed, medicine and the like. Store at moderate temperatures in dry, well ventilated area.

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
Hydrocarbons, C6-C7, alkanes, isoalkanes, cyclics, < 5% n-hexane	EC no.: 921-024-6 Registration number: 01-2119475514-35-xxxx	8-hour TWA: 1500 mg/m ³	
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Registration number: 01-2119457558-25-XXXX Synonyms: Propan-2-ol	8-hour TWA: 400 ppm 8-hour TWA: 999 mg/m ³ 15 min.: 500 ppm 15 min.: 1250 mg/m ³	2011
n-Hexane	CAS no.: 110-54-3 EC no.: 203-777-6 Index no.: 601-037-00-0 Synonyms: n-Hexane	8-hour TWA: 20 ppm 8-hour TWA: 72 mg/m ³	2011
Cyclohexane	CAS no.: 110-82-7 EC no.: 203-806-2 Index no.: 601-017-00-1 Synonyms: Cyclohexane	8-hour TWA: 100 ppm 8-hour TWA: 350 mg/m ³ 15 min.: 300 ppm 15 min.: 1050 mg/m ³	2011
(R)-p-Mentha-1,8-diene	CAS no.: 5989-27-5 EC no.: 227-813-5 Index no.: 601-029-00-7 Registration number: 01-2119529223-47-xxxx	8-hour TWA: 75 ppm	

DNEL / PNEC from substances

Substance	Propan-2-ol
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 888 mg/kg bw/day Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 500 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 319 mg/kg bw/day Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation

	Exposure frequency: Long term (repeated)
	Type of effect: Systemic effect
	Value: 89 mg/m ³
	Remarks: ECHA
DNEL	Group: Consumer
	Exposure route: Oral
	Exposure frequency: Long term (repeated)
	Type of effect: Systemic effect
	Value: 26 mg/kg bw/day
	Remarks: ECHA
PNEC	Exposure route: Freshwater sediments
	Value: 552 mg/kg
PNEC	Exposure route: Sewage treatment plant STP
	Value: 2251 mg/l
PNEC	Value: 140,9
	Remarks: Intermittent releases
PNEC	Exposure route: Saltwater
	Value: 140,9 mg/l
PNEC	Exposure route: Soil
	Value: 25 mg/kg
PNEC	Exposure route: Freshwater
	Value: 140,9 mg/l
PNEC	Exposure route: Saltwater sediments
	Value: 552 mg/kg

8.2. Exposure controls

Limitation of exposure on workplace

Working place and methods must be arranged in order to avoid any direct contact with the product. 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. Nitrile gloves are recommended. Breakthrough time: >2 hours.

Eye / face protection

Eye protection

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

Skin protection

Skin protection (except hands)

Anti-static boots. Protection suit must be worn.

Thermal hazards

Thermal hazards

See section 5.

Appropriate environmental exposure control

Environmental exposure controls

See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol.
Colour	Colourless.
Odour	Lemon.

Comments, Odour limit	No data recorded.
Comments, pH (as supplied)	Not relevant.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Boiling point / boiling range	Value: > 80 °C
Flash point	Value: < 0 °C
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Specific gravity	Value: ~ 0,71 g/ml
Comments, Bulk density	Not relevant.
Solubility in water	insoluble
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.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Physical hazards

Comments, Permeation rate	Not relevant.
Comments, Pour point	Not relevant.
Comments, Particle size	Not relevant.
Comments, Critical pressure	No data recorded.
Comments, Expansion coefficient	No data recorded.
Comments, Redox potential	Not relevant.
Comments, Radical formation potential	Not relevant.
Comments, Photocatalytic properties	Not relevant.

Other physical and chemical properties

Comments	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Flammable. Risk of ignition.
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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 exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.
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10.5. Incompatible materials

Materials to avoid	No data recorded.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Gases that are dangerous to health may be formed in a fire: carbon dioxide (CO ₂) , carbon monoxide (CO) .
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data

Toxicological tests on the product has not been performed.

Toxicological data for substances

Substance	Hydrocarbons, C6-C7, alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50 oral	Value: > 5000 mg/kg Animal test species: Rat Test reference: OECD 401
LD50 dermal	Value: > 2000 mg/kg Animal test species: Rabbit Test reference: OECD 402
Substance	Propan-2-ol
LD50 oral	Value: 5840 mg/kg Animal test species: rat Duration: single dose Test reference: OECD 401 Comments: ECHA
LD50 dermal	Value: 16,4 mL/kg Animal test species: rabbit Duration: 24h Test reference: OECD 402 Comments: ECHA
LC50 inhalation	Value: > 10000 ppm Animal test species: rat Duration: 6h Test reference: OECD 403 Comments: ECHA
Acute toxicity	Inhalation: Species: Rat. Result: Drowsiness, dizziness, disorientation, vertigo. Duration: -. Method of testing: OECD 426. ECHA
Serious eye damage / irritation	Species: Rabbit. Result: Irritation to eye. Duration: Single dose. Method of testing: OECD 405 . ECHA
Substance	(R)-p-Mentha-1,8-diene
LD50 oral	Value: 4400 mg/kg Animal test species: Rat Comments: Supplier MSDS
LD50 dermal	Value: > 2000 mg/kg Animal test species: Rabbit Comments: Supplier MSDS
Skin corrosion / irritation	Data lacking.
Serious eye damage / irritation	Data lacking.
Respiratory or skin sensitisation	Species: Not known. Result: Sensitising. Method of testing: Not known.

Potential acute effects

Inhalation	Vapours may cause drowsiness and dizziness. Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, nausea and in serious cases unconsciousness. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.
Skin contact	Skin contact may cause redness, smarting and itching. Prolonged or repeated exposure may degrease the skin with symptoms like redness, smarting, itching, cracking of skin and possible eczema.
Eye contact	May cause temporary eye irritation.
Ingestion	May cause nausea, headache, dizziness and intoxication. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Symptoms of Exposure

Symptoms of overexposure

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic, comments

No data available for the product.

Toxicological data for substances

Substance

Propan-2-ol

Acute aquatic, fish

Value: 8970-9280 mg/l

Method of testing: LC50

Species: *Leuciscus idus melanotus*

Duration: 48h

Acute aquatic, algae

Value: 1800 mg/l

Method of testing: TGK

Species: *Scenedesmus quadricauda*

Duration: 8d

Acute aquatic, Daphnia

Value: 9715 mg/l

Method of testing: LC50

Species: *Daphnia magna*

Duration: 24h

Mobility, description

Mobility, description: The product is water soluble and may spread in water systems.

Persistence and degradability

The product is easily biodegradable.

Biodegradability

Value: 95 %

Test period: 21d

Method of testing: OECD 301E

Bioaccumulation

The product is not bioaccumulating.

Result of PBT assessment for the substance

Not Classified as PBT/vPvB by current EU criteria.

Substance

(R)-p-Mentha-1,8-diene

Acute aquatic, Daphnia

Value: 0,73 mg/l

Species: *Daphnia Sp*

Test reference: Supplier MSDS

Mobility, description

Mobility, description: The product is insoluble in water and will spread on the water surface.

Persistence and degradability

The product is not readily biodegradable.

Bioaccumulation

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Bioconcentration factor (BCF)

Comments: Log Pow >3

Result of PBT assessment for the substance

Not Classified as PBT/vPvB by current EU criteria.

12.2. Persistence and degradability

Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility

No data recorded.

12.5. Results of PBT and vPvB assessment

PBT assessment results

This product does not contain any PBT or vPvB substances.

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 dispose of residues and waste down the drains. 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: 150110 packaging containing residues of or contaminated by dangerous substances
Other Information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

ADR	AEROSOL
RID	AEROSOL
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR	2.2
RID	2.2
IMDG	2.2
ICAO/IATA	2.2

14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

IMDG Marine pollutant	Nein
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14.6. Special precautions for user

EmS	F-D, S-U
Special safety precautions for user	None.

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	Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
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 Aerosol Dispensers Regulations 2009 (SI 2824), with amendments. EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). 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.
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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 Aerosol 1; H222; Skin Irrit. 2; H315; Eye Irrit. 2; H319; STOT SE3; H336; Aquatic Chronic 2; H411; ; H229;
List of relevant R-phrases (under headings 2 and 3).	R43 May cause sensitization by skin contact. R36 Irritating to eyes. R51 Toxic to aquatic organisms. R50 Very toxic to aquatic organisms. R11 Highly flammable. R65 Harmful: may cause lung damage if swallowed. R62 Possible risk of impaired fertility. R53 May cause long-term adverse effects in the aquatic environment. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R67 Vapours may cause drowsiness and dizziness. R38 Irritating to skin. R10 Flammable. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
List of relevant H-phrases (Section 2 and 3).	H304 May be fatal if swallowed and enters airways. H222 Extremely flammable aerosol. H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life. H315 Causes skin irritation. H361f Suspected of damaging fertility. H317 May cause an allergic skin reaction. H225 Highly flammable liquid and vapour. H410 Very toxic to aquatic life with long lasting effects. H229 Pressurised container: May burst if heated. H411 Toxic to aquatic life with long lasting effects. H319 Causes serious eye irritation.
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	IB