

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### BEST-Clean 1000 - Spray

Print date: 18.12.2011

Product code:

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

##### Product identifier

BEST-Clean 1000 - Spray

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

###### Use of the substance/mixture

Washing and cleaning products (including solvent based products)

###### Uses advised against

none/none

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

Company name:	Best Klebstoffe GmbH & Co. KG	
Street:	Gewerbestraße 10-14	
Place:	D-86981 Kinsau	
Telephone:	+49 (0)8869-93139	Telefax: +49 (0)8869-5238
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Internet:	www.bestklebstoffe.de	
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**Emergency telephone:** +49 (0)8869-93139 (08:00 - 17:00)

#### SECTION 2: Hazards identification

##### Classification of the substance or mixture

Indications of danger : Extremely flammable, Irritant, Dangerous for the environment

R-phrases:

Extremely flammable.

Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

##### **GHS classification**

Hazard categories:

Flammable aerosol: Flam. Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

##### Label elements

Signal word:

Danger

Pictograms:

GHS02-GHS07-GHS09



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#### Hazard statements

H222	Extremely flammable aerosol.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. - 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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to disposal according to official regulations .

### SECTION 3: Composition/information on ingredients

#### Mixtures

##### Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	80 - < 100 %
64742-49-0	F, Xn, Xi, N R11-38-51-53-65-67	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
200-827-9	propane	1 - < 10 %
74-98-6	F+ R12	
601-003-00-5	Flam. Gas 1; H220	
203-448-7	butane	1 - < 10 %
106-97-8	F+ R12	
601-004-00-0	Flam. Gas 1; H220	
204-696-9	carbon dioxide	1 - < 10 %
124-38-9		

Full text of R- and H-phrases: see section 16.

#### Further Information

Full text of R- and H-phrases: see section 16.

### SECTION 4: First aid measures

#### Description of first aid measures

##### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

##### After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. In case of irritation of the

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respiratory tract seek medical advice.

#### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

#### **After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### **After ingestion**

Caution if victim vomits: Risk of aspiration! Rinse mouth thoroughly with water. Immediately call a POISON CENTER or doctor/physician. Let water be swallowed in little sips (dilution effect). Do not induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

#### **Most important symptoms and effects, both acute and delayed**

Treat symptomatically.

### SECTION 5: Firefighting measures

#### **Extinguishing media**

##### **Suitable extinguishing media**

Water spray. Foam. Carbon dioxide. Extinguishing powder. Dry extinguishing powder. alcohol resistant foam.

##### **Extinguishing media which must not be used for safety reasons**

High power water jet.

#### **Special hazards arising from the substance or mixture**

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

#### **Advice for firefighters**

Wear a self-contained breathing apparatus and chemical resistant suit.

#### **Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes.

### SECTION 6: Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. (Refer to chapter 8.) Remove all sources of ignition. Guide people to safety. Vapours are heavier than air and will spread at floor level.

#### **Environmental precautions**

Cover drains. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not empty into drains or the aquatic environment.

#### **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Ventilate affected area.

#### **Reference to other sections**

Clean contaminated objects and areas thoroughly observing environmental regulations.

### SECTION 7: Handling and storage

#### **Precautions for safe handling**

##### **Advice on safe handling**

In case of open handling equipment with built-in suction must be used. Do not breathe

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gas/fumes/vapour/spray. Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

Combustible. Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting. Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray into flames or ignition sources. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Please note: 300 aerosol directive (75/324/EEC).

##### Advice on storage compatibility

Do not store together with: Radioactive substances. Infectious substances. Organic peroxides Oxidizing solids Oxidizing liquids Pyrophoric liquids and solids. Inflammatory substances. Substances or mixtures which, in contact with water emit flammable gases.

##### Further information on storage conditions

Recommended storage temperature: 10-30°C Do not store at temperatures over: 50°C

### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### Exposure limits (EH40)

CAS No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha		600		TWA (8 h)	AGS2.9
					STEL (15 min)	AGS2.9
124-38-9	carbon dioxide	5000	9100		TWA (8 h)	DFG
		15000	27400		STEL (15 min)	DFG
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

#### Exposure controls

##### Occupational exposure controls

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

##### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection required in case of:

Generation/formation of aerosols exceeding critical value  
insufficient ventilation.

Generation/formation of mist

Suitable respiratory protective equipment: gas filtering equipment (EN 141).

##### Hand protection

Pull-over gloves of rubber. DIN EN 374

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Suitable material:  
(penetration time (maximum wearing period):  $\geq$  8 h):  
FKM (fluororubber). (0,4 mm)  
NBR (Nitrile rubber). (0,35 mm)  
(penetration time (maximum wearing period):  $\geq$  1 h):  
CR (polychloroprenes, Chloroprene rubber). (0,5 mm)  
In case of reutilization, clean gloves before taking off and store in well-aired place.

#### Eye protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic

#### Test method

pH-Value:	N/A
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#### Changes in the physical state

Flash point:	$< 0$ °C
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#### Oxidizing properties

none/none

Density:	0,705 g/cm <sup>3</sup>
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Water solubility:	insoluble
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### SECTION 10: Stability and reactivity

#### Reactivity

No information available.

#### Chemical stability

Stable under normal storage and handling conditions.

#### Possibility of hazardous reactions

No information available.

#### Conditions to avoid

Ignition hazard. Keep away from heat. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharges. See protective measures under point 7 and 8.

#### Incompatible materials

Oxidizing agents, strong.

#### Hazardous decomposition products

In use, may form flammable/explosive vapour-air mixture. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No information available.

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**Acute toxicity**

CAS No.	Chemical name						
	Exposure routes	Method	Dose	Species	h	Source	
74-98-6	propane						
	Acute inhalation toxicity	LC50 min) ppm	800000 (15	Rat.			

**Irritation and corrosivity**

Irritant effect on the eye: slightly irritant but not relevant for classification.

Irritant effect on the skin: irritant.

**Sensitizing effects**

The statement is derived from the properties of the components.: no danger of sensitization.

**Severe effects after repeated or prolonged exposure**

propane:

NOAEC = 4000 ppm (OECD Guideline 422)

C-5 hydrocarbons.:

LOAEC = 98 ppm (OECD Guideline 422)

**Carcinogenic/mutagenic/toxic effects for reproduction**

propane:

No experimental indications of mutagenicity in-vitro exist.

C-5 hydrocarbons.:

No experimental indications of mutagenicity in-vitro exist.

**SECTION 12: Ecological information****Persistence and degradability**

C-5 hydrocarbons.:

OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D = 0% (28d)

Not easily bio-degradable (according to OECD-criteria).

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment**

No information available.

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Moreover, national legislation has to be observed! Consult the local waste disposal expert about waste disposal.

**Waste disposal number of waste from residues/unused products**160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances  
Classified as hazardous waste.**Waste disposal number of used product**160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances  
Classified as hazardous waste.

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#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

#### Contaminated packaging

Cleaned containers may be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**UN number:** 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 625  
Limited quantity: 1 L  
Transport category: 2  
Tunnel restriction code: D

#### Other applicable information (land transport)

Excepted quantity: E0

#### Inland waterways transport

**UN number:** 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L

#### Other applicable information (inland waterways transport)

Excepted quantity: E0

#### Marine transport

**UN number:** 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2  
**Packing group:** -  
Hazard label: 2, see SP63

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Special Provisions: 63, 190, 277, 327, 344, 9

Limited quantity: See SP277

EmS: F-D, S-U

#### Other applicable information (marine transport)

Excepted quantity: E0

#### Air transport

**UN/ID number:** 1950

**UN proper shipping name:** AEROSOLS, flammable

**Transport hazard class(es):** 2.1

Hazard label: 2.1



Special Provisions: A145 A167

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

#### Other applicable information (air transport)

Excepted quantity: E0

Passenger-LQ: Y203

### SECTION 15: Regulatory information

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

##### EU regulatory information

1999/13/EC (VOC): ~97% (Data concerning the Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL))

##### Additional information

1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004;

1907/2006; 1272/2008; 75/324/EWG (2008/47/EG)

Labelling for contents according to regulation (EC) No 648/2004, annex 7: > 30% hydrocarbons, aliphatic.

##### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

### SECTION 16: Other information

#### Changes

Rev. 1.0 Initial release ; 13.12.11

#### Full text of R-phrases referred to under sections 2 and 3

- |       |   |
|-------|---|
| 11    | Highly flammable.   |
| 12    | Extremely flammable.  |
| 38    | Irritating to skin.   |
| 51    | Toxic to aquatic organisms.   |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53    | May cause long-term adverse effects in the aquatic environment.                             |
| 65    | Harmful: may cause lung damage if swallowed.  |
| 67    | Vapours may cause drowsiness and dizziness.   |



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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*