

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

BEST-Clean 2000 - Spray

Print date: 10.12.2011

Product code: 424

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

Product identifier

BEST-Clean 2000 - 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
e-mail:	info@bestklebstoffe.de	
Internet:	www.bestklebstoffe.de	
Responsible Department:	Dr. Timo Gans-Eichler Chemieberatung Raesfeldstr. 22 48149 Münster	e-mail: tge-consult@t-online.de Tel.: +49 (0)251/924520-60 www.tge-consult.de

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.		
203-523-4	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane	80 - < 100 %
107-83-5	F, Xn, Xi, N R11-65-38-67-51-53	
601-007-00-7	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H304 H315 H336 H411	
200-857-2	isobutane	1 - < 10 %
75-28-5	F+ R12	
601-004-00-0	Flam. Gas 1; H220	
200-827-9	propane	1 - < 10 %
74-98-6	F+ R12	
601-003-00-5	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-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 (CO₂).

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. 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.

Advice on protection against fire and explosion

Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

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: aerosol directive (75/324/EEC).

Advice on storage compatibility

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 ³	mg/m ³	F/ml	Category	Origin
124-38-9	carbon dioxide	5000	9100		TWA (8 h)	DFG
		15000	27400		STEL (15 min)	DFG

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

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)

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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

Changes in the physical state

Boiling point: < 0 °C
Flash point: < 0 °C

Oxidizing properties

none/none

Density: 0,705 g/cm³

Water solubility: insoluble

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 (CO₂).

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
75-28-5	isobutane				
	Acute inhalation toxicity	LC50	539600 ppm	Mouse.	2
74-98-6	propane				
	Acute inhalation toxicity	LC50	800000 (15 min) ppm	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

isobutane:
NOAEC = 4000 ppm (OECD Guideline 422)
propane:
NOAEC = 4000 ppm (OECD Guideline 422)

Carcinogenic/mutagenic/toxic effects for reproduction

isobutane:
No experimental indications of mutagenicity in-vitro exist.
propane:
No experimental indications of mutagenicity in-vitro exist.

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

Product is biodegradable.

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): ~96% (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 ; 10.12.11

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.



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67 Vapours may cause drowsiness and dizziness.

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.

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