

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kettenspray

Print date: 03.04.2013

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

1.1. Product identifier

Kettenspray

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

Use of the substance/mixture

Spraying outside industrial settings and/or applications.

Uses advised against

none/none

1.3. 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)08869 91384-0	Telefax:	+49 (0)08869 91384-15
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

1.4. Emergency telephone number:

+49 (0)08869 91384-0 (08:00 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable

R phrases:

Extremely flammable.

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

GHS classification

Hazard categories:

Flammable aerosol: Flam. Aerosol 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Signal word: Danger

Pictograms: GHS02



Hazard statements

H222

Extremely flammable aerosol.

H412

Harmful to aquatic life with long lasting effects.

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Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P262 Do not get in eyes, on skin, or on clothing.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Special labelling of certain mixtures

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

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.

Do not open container by force.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Liquid aerosol (mist).

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-827-9	propane	10 - 25 %
74-98-6	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	
203-448-7	butane	1 - 10 %
106-97-8	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	
265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	1 - 10 %
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment 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	
263-093-9	Calciumpetroleumsulfonate	1 - 10 %
61789-86-4	R52	
	Aquatic Acute 3; H402	
271-781-5	Sulfonic acids, petroleum, sodium salts	1 - 5 %
68608-26-4	Xi - Irritant R36	
	Eye Irrit. 2; H319	
200-857-2	isobutane	10 - 25 %
75-28-5	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	

Full text of R and H phrases: see Section 16.

Further Information

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

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

After inhalation

No special measures are necessary. In case of irritation of the respiratory tract seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Rub in high-fat content cream.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Not applicable in case of an aerosol can.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Foam. Carbon dioxide. Dry extinguishing powder.

Extinguishing media which must not be used for safety reasons

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant.

5.3. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin.

Keep away from sources of ignition - No smoking.

Provide adequate ventilation. Wear personal protection equipment.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. 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.

Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool dry place. Protect against: heat. frost.

Advice on storage compatibility

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

Further information on storage conditions

Note: Storage requirements for flammable aerosols TRG 300

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/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
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

8.2. Exposure controls

Occupational exposure controls

Use only outdoors or in a well-ventilated area.

Protective and hygiene measures

Do not breathe gas/fumes/vapour/spray. Do not eat, drink or smoke when using this product.

Respiratory protection

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

Respiratory protection required in case of:

exceeding critical value

Suitable respiratory protective equipment:

Combination filter device (DIN EN 141).. Type : A-P2

Hand protection

In case of prolonged or frequently repeated skin contact: Wear protective gloves.

Suitable material: Butyl rubber. (> 120 min.) DIN EN 374

Eye protection

Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

No special measures are necessary.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol

Colour: yellow

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Odour: characteristic

Test method

Changes in the physical state

Boiling point: not determined

Flash point: not determined

Explosive properties

Heating causes rise in pressure with risk of bursting.

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Oxidizing properties

none/none

Vapour pressure: not determined

Density: 0,68 g/cm³

Water solubility: not miscible

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal storage and handling conditions.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Stable under normal storage and handling conditions.

10.4. Conditions to avoid

Do not store at temperatures over: 50 °C Danger of bursting container.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

not applicable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

No information available.

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
74-98-6	propane	inhalative gas	LC50 min)	800000 (15 ppm	Rat.	
75-28-5	isobutane	inhalative (2 h) gas	LC50 ppm	539600	Mouse.	

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Specific effects in experiment on an animal

No information available.

Irritation and corrosivity

Irritant effect on the eye: Not an irritant.

Irritant effect on the skin: Not an irritant.

Sensitising effects

No information available.

Severe effects after repeated or prolonged exposure

No information available.

Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

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.

Waste disposal number of contaminated packaging

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.

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS

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14.3. Transport hazard class(es): 2

Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)

Excepted quantity: E0

Inland waterways transport (ADN)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS

14.3. 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 (IMDG)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2

14.4. Packing group: -

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: See SP277
EmS: F-D, S-U

Other applicable information (marine transport)

Excepted quantity: E0

Air transport (ICAO)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es): 2.1

Hazard label: 2.1

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Special Provisions:	A145 A167 A802
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

14.5. Environmental hazards

Dangerous for the environment: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 51,9 (1999/13/EC)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1,0 Initial release 03.04.2013

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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NOAEL: No observed adverse effect level

Full text of R phrases referred to under Sections 2 and 3

- | | |
|-------|---|
| 11 | Highly flammable. |
| 12 | Extremely flammable. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 51 | Toxic to aquatic organisms. |
| 52 | Harmful to aquatic organisms. |
| 52/53 | Harmful 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. |

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. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H402 | Harmful to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful 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.)