

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rust remover Spray

Print date: 12.07.2013

Product code:

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

1.1. Product identifier

Rust remover Spray

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.

GHS classification

Hazard categories:

Flammable aerosol: Flam. Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

2.2. Label elements

Signal word: Danger

Pictograms: GHS02



Hazard statements

H222 Extremely flammable aerosol.

Precautionary statements

P251 Pressurized container: Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

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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.

2.3. Other hazards

TRG 300: Lagervorschriften für Druckgaspackungen (Aerosole).

TRGS 401: Gefährdung durch Hautkontakt. - Ermittlung, Beurteilung, Maßnahmen.

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		
265-149-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified	40-60 %
64742-47-8	Xn - Harmful R65	
649-422-00-2	Asp. Tox. 1; H304	
200-857-2	isobutane	10 - 25 %
75-28-5	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	
200-827-9	propane	10 - 25 %
74-98-6	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	
203-905-0	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	1-10 %
111-76-2	Xn - Harmful, Xi - Irritant R20/21/22-36/38	
603-014-00-0	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H332 H312 H302 H319 H315	
203-448-7	butane	1 - 10 %
106-97-8	F+ - Extremely flammable R12	
	Flam. Gas 1, Compressed gas; H220 H280	

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

Further Information

Product does not contain listed SVHC substances.

SECTION 4: First aid measures

4.1. 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

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

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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.

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.

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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
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid	240 mmol/mol	urine	Post shift

Additional advice on limit values

No information available.

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 / A-P3

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: yellowish
 Odour: characteristic

Test method

Changes in the physical state

Melting point:	not determined
Boiling point:	not determined
Sublimation point:	not determined
Softening point:	not determined
Flash point:	not determined

Flammability

Solid:	not determined
Gas:	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
Vapour pressure:	not determined
Density:	0,70 g/cm ³
Water solubility:	not miscible

Solubility in other solvents

No information available.

Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined

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

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10.6. Hazardous decomposition products

not applicable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

No information available.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified				
	oral	LD50 mg/kg	> 5000	Rat.	ECHA dossier
	dermal	LD50 mg/kg	> 2000	Rabbit.	ECHA dossier
	inhalative (4 h) vapour	LC50	(> 5,3) mg/l	Rat.	ECAH dossier
75-28-5	isobutane				
	inhalative (2 h) gas	LC50 ppm	539600	Mouse.	
74-98-6	propane				
	inhalative gas	LC50 min) ppm	800000 (15	Rat.	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether				
	oral	LD50	470 mg/kg	Rat.	
	dermal	LD50	220 mg/kg	Rabbit.	
	inhalative (4 h) vapour	LC50	2,2 mg/l	Rat.	
	inhalative aerosol	ATE	1,5 mg/l		

Specific effects in experiment on an animal

No information available.

Irritation and corrosivity

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

Irritant effect on the skin: irritant.

Sensitising effects

No information available.

Severe effects after repeated or prolonged exposure

isobutane:

NOAEC = 4000 ppm (OECD Guideline 422)

propane:

NOAEC = 4000 ppm (OECD Guideline 422)

butylene glycol.

NOAEC = 4000 ppm (OECD Guideline 422)

Carcinogenic/mutagenic/toxic effects for reproduction

propane:

No experimental indications of mutagenicity in-vitro exist.

SECTION 12: Ecological information

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12.1. Toxicity

No information available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified					
	Acute fish toxicity	LC50	18 mg/l	96	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50	21 mg/l	48	Daphnia magna	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether					
	Acute fish toxicity	LC50	1490 mg/l	96	Lepomis macrochirus	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	0,81 (25°C)

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.

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
14.3. Transport hazard class(es): 2
 Hazard label: 2.1



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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

Marine pollutant: NO
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



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203

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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): 100% (1999/13/EC)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 2 - 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 11.07.2013

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
NOAEL: No observed adverse effect level

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

12	Extremely flammable.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36/38	Irritating to eyes and skin.
65	Harmful: may cause lung damage if swallowed.

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Full text of H statements referred to under Sections 2 and 3

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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.)