



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version number: GHS 1.0

Date of compilation: 2021-06-29

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

1.1 Product identifier

Trade name

ORIGINAL BEGADI FARB-SPRAY - 400 ml

Article number

BROWN SPRAY
COYOTE BROWN SPRAY
CONCRETE GREY SPRAY
DARK GREEN SPRAY
DARK BASE SPRAY
DARK BROWN SPRAY
LIGHT GREEN SPRAY
MIDDLE GRAY SPRAY
SAND SPRAY
SCHUTZLACK MATT
TAN SPRAY
WHITE SPRAY
YELLOW OLIVE SPRAY
OLIVE-GREEN SPRAY

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

Relevant identified uses

General use
Paint, coating and lacquer

1.3 Details of the supplier of the safety data sheet

Begadi GmbH
Dietinger Straße 23
78661 Böhringen
Telephone: +49(0)7404/914410
Telefax: +49(0)7404/914955
e-mail: info@begadi.com
Website: www.begadi.com

1.4 Emergency telephone number

Emergency information service

+49(0)7404/914410 (Über die Zentrale vermittelt)
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

danger

Pictograms

GHS02, GHS07



Hazard statements

H222
H229
H319
H336

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Hazardous ingredients for labelling acetone, N-butyl acetate, ethyl acetate

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Identifier	Name of substance	Wt%	Classification acc. to GHS	Pictograms
CAS No 106-97-8 EC No 203-448-7 Index No 601-004-00-0 REACH Reg. No 01-2119474691-32	butane	25 - < 50	Flam. Gas 1 / H220 Press. Gas L / H280	 
CAS No 67-64-1 EC No 200-662-2 Index No 606-001-00-8 REACH Reg. No 01-2119471330-49	acetone	10 - < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
CAS No 123-86-4 EC No 204-658-1 REACH Reg. No 01-2119485493-29- xxxx	N-butyl acetate	10 - < 25	Flam. Liq. 3 / H226 STOT SE 3 / H336	 



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Identifier	Name of substance	Wt%	Classification acc. to GHS	Pictograms
CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944-21	propane	5 – < 10	Flam. Gas 1 / H220 Press. Gas L / H280	 
CAS No 141-78-6 EC No 205-500-4 REACH Reg. No 01-2119475103-46-xxxx	ethyl acetate	1 – < 5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
CAS No 13463-67-7 EC No 236-675-5 Index No 022-006-00-2 REACH Reg. No 01-2119489379-17-xxxx	titanium dioxide	1 – < 5	Carc. 2 / H351	
CAS No 75-28-5 EC No 200-857-2 Index No 601-004-00-0 REACH Reg. No 01-2119485395-27	isobutane	1 – < 5	Flam. Gas 1 / H220 Press. Gas L / H280	 

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Packaging compatibilities

Keep only in original container.

Storage class (LGK) TRGS 510

LGK 2 B (aerosol dispensers and lighters)

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	butane	106-97-8	AGW	1,000	2,400	4,000	9,600				TRGS 900
DE	1-butyl acetate	123-86-4	MAK	100	480	200	960				DFG
DE	n-butyl acetate	123-86-4	AGW	62	300	124	600			Y	TRGS 900
DE	titanium dioxide	13463-67-7	MAK		0.3		2.4			r, multi-density	DFG
DE	ethyl acetate	141-78-6	MAK	200	750	400	1,500				DFG
DE	ethyl acetate	141-78-6	AGW	200	730	400	1,460			Y	TRGS 900
DE	acetone	67-64-1	AGW	500	1,200	1,000	2,400			Y	TRGS 900
DE	propane	74-98-6	AGW	1,000	1,800	4,000	7,200				TRGS 900
DE	isobutane	75-28-5	AGW	1,000	2,400	4,000	9,600				TRGS 900
DE	silica, amorphous	7631-86-9	AGW		4					i, DE-AGW-2, Y	TRGS 900
DE	silica, amorphous	7631-86-9	MAK		4					i	DFG
EU	n-butyl acetate	123-86-4	IOEL V	50	241	150	723				2019/1831/EU
EU	ethyl acetate	141-78-6	IOEL V	200	734	400	1,468				2017/164/EU
EU	acetone	67-64-1	IOEL V	500	1,210						2000/39/EC

Notation

Ceiling-C

DE-AGW-2

i

ceiling value is a limit value above which exposure should not occur

Colloidal amorphous silica (7631-86-9) including fumed silica and produced in wet process silica (precipitated silica, silica gel).

inhalable fraction



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Notation

mult-dens- multiplied by the material density

r

respirable fraction

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Y

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	acetone	acetone		BLV	80 mg/l	TRGS 903

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
acetone	67-64-1	DNEL	2,420 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	1,210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	300 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
N-butyl acetate	123-86-4	DNEL	600 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
N-butyl acetate	123-86-4	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
N-butyl acetate	123-86-4	DNEL	48 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	960 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
titanium dioxide	13463-67-7	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
acetone	67-64-1	PNEC	21 mg/l	aquatic organisms	water	intermittent release
N-butyl acetate	123-86-4	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.36 mg/l	aquatic organisms	water	intermittent release
N-butyl acetate	123-86-4	PNEC	35.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.981 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.098 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.09 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl acetate	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.65 mg/l	aquatic organisms	water	intermittent release
titanium dioxide	13463-67-7	PNEC	0.184 mg/l	aquatic organisms	freshwater	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	0.0184 mg/l	aquatic organisms	marine water	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	1,000 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	100 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	100 mg/kg	terrestrial organisms	soil	short-term (single instance)
titanium dioxide	13463-67-7	PNEC	0.193 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

Hand protection

Wear protective gloves. (Splash protection)

Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Full face mask/half mask/quarter mask (EN 136/140).

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	aerosol (spray aerosol)
Colour	acc. to product description
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not applicable (aerosol)
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	2.2 vol% - 15 vol%
Flash point	not applicable (aerosol)
Decomposition temperature	not relevant
pH (value)	not applicable (aerosol)
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Vapour pressure	4,200 hPa at 20 °C
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Density and/or relative density

Density	0.7708 g/ml (calculated value)
Relative vapour density	information on this property is not available

	not relevant (aerosol)
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9.2 Other information

Information with regard to physical hazard classes there is no additional information

Other safety characteristics

Temperature class (EU, acc. to ATEX)

T3 (maximum permissible surface temperature on the equipment: 200°C)

Odour

characteristic



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

Date of compilation: 2021-06-29

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

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SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes, (Recommendations)

Product

08 01 11* Waste paint and varnish containing organic solvents or other hazardous substances

Product residues

16 05 04* Gases in pressure containers (including halons) containing hazardous substances

Packagings

15 01 04 Metallic packaging

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN UN 1950

IMDG-Code UN 1950

ICAO-TI UN 1950

14.2 UN proper shipping name

ADR/RID/ADN AEROSOLS

IMDG-Code AEROSOLS

ICAO-TI Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN 2 (2.1)

IMDG-Code 2.1

ICAO-TI 2.1



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BROWN SPRAY - COYOTE BROWN SPRAY - CONCRETE GREY SPRAY - DARK GREEN SPRAY - DARK BASE SPRAY - DARK BROWN SPRAY - LIGHT GREEN SPRAY - MIDDLE GRAY SPRAY - SAND SPRAY - SCHUTZLACK MATT - TAN SPRAY - WHITE SPRAY - YELLOW OLIVE SPRAY - OLIVE-GREEN SPRAY - ORIGINAL BEGADI FARB-SPRAY - 400 ml

Version number: GHS 1.0

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- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
Provisions for dangerous goods (ADR) should be complied within the premises.
- 14.7 Maritime transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Classification code 5F
 Danger label(s) 2.1



Special provisions (SP) 190, 327, 344, 625
 Excepted quantities (EQ) E0
 Limited quantities (LQ) 1 L
 Transport category (TC) 2
 Tunnel restriction code (TRC) D

International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -
 Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959
 Excepted quantities (EQ) E0
 Limited quantities (LQ) 1 L
 EmS F-D, S-U
 Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167
 Excepted quantities (EQ) E0
 Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Deco-Paint Directive (2004/42/EC)

VOC content	625 g/l
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Maximum VOC content limit				
Product category	Product subcategory	Coating	Type	VOC g/l
vehicle refinishing products	special finishes	all types		840



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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
titanium dioxide		A)	
titanium dioxide		A)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) No 2019/1148: All suspicious transactions as well as the loss and theft of significant quantities must be reported to the competent authority.

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
acetone	67-64-1	Annex II			

Legend

annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 1 slightly hazardous to water

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0.5 kg/h	50 mg/m ³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend

REACH Reg. REACH registered substances



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15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations.
2000/39/EC. 2017/164/EU.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.
2019/1831/EU.	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.
ADN.	Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
ADR.	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR/RID/ADN.	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW.	European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).
Carc.	Workplace exposure limit.
CAS.	Carcinogenicity.
Ceiling-C.	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP.	Ceiling value.
DFG.	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
DGR.	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DNEL.	Dangerous Goods Regulations (see IATA/DGR).
EC No.	Derived No-Effect Level.
EINECS.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
ELINCS.	European Inventory of Existing Commercial Chemical Substances.
Ems.	European List of Notified Chemical Substances.
Eye Dam.	Emergency Schedule.
Eye Irrit.	Seriously damaging to the eye.
Flam. Gas.	Irritant to the eye.
Flam. Liq.	Flammable gas.
GHS.	Flammable liquid.
IATA.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA/DGR.	International Air Transport Association.
ICAO.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO-TI.	International Civil Aviation Organization.
IMDG.	Technical instructions for the safe transport of dangerous goods by air.
IMDG-Code.	International Maritime Dangerous Goods Code.
Index No.	International Maritime Dangerous Goods Code.
IOELV.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
LGK.	Indicative occupational exposure limit value.
NLP.	Lagerklasse (storage class according to TRGS 510, Germany).
PBT.	No-Longer Polymer.
PNEC.	Persistent, Bioaccumulative and Toxic.
Ppm.	Predicted No-Effect Concentration.
Press. Gas.	Parts per million.
REACH.	Gas under pressure.
RID.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
STEL.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STOT SE.	Short-term exposure limit.
SVHC.	Specific target organ toxicity - single exposure.
TRGS.	Substance of Very High Concern.
TRGS 900.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 903.	Arbeitsplatzgrenzwerte (TRGS 900).
TWA.	Biologische Grenzwerte (TRGS 903).
VOC.	Time-weighted average.
VPVB.	Volatile Organic Compounds.
	Very Persistent and very Bioaccumulative.

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H229.	Pressurised container: May burst if heated.
H280.	Contains gas under pressure; may explode if heated.
H319.	Causes serious eye irritation.
H336.	May cause drowsiness or dizziness.
H351.	Suspected of causing cancer.



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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.