

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: Grip GP 01 Spray

Article-No.: Grip GP 01 Spray

Revision date: 13.06.2018

Version: 1/en

Print date: 13.06.2018



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

1.1 Product identifier

Commercial Product Name **Grip GP 01 Spray**

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

Relevant identified uses Paint according to technical data sheet no.

Recommended restrictions Only Qualified for the application to our manufacturing instruction or our product recommendation. For other usage we provide no warranty resp. exclude liability.

1.3 Details of the supplier of the safety data sheet

Company designation GriP Safety Coatings AG
Industriestrasse 13
CH-6343 Rotkreuz
Telephone: +41 / 41 / 726 20 80
FAX: +41 / 41 / 726 20 81
Email: info@grip-antislip.com
Internet: www.grip-antislip.com

Responsible Department info@grip-antislip.com

1.4 Emergency telephone number

Emergency telephone number Tox-Zentrum Zürich, +41 / 44 / 251 51 51, oder 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Flam. Aerosol 1; H222-H229 Eye Irrit. 2; H319 STOT SE 3; H336

2.2 Label elements

Hazard pictogram



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label Aceton, n-Butylacetat, 2-Methoxy-1-methylethylacetat, Solvent naphtha (petroleum), light arom.

H-statement(s) H222-H229: Extrem entzündbares Aerosol. Behälter Steht unter Druck kann bersten.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

P-statement(s)

P271: Use only outdoors or in a well-ventilated area.

Further information

Contains 100 % of components with unknown hazards to the aquatic environment.

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SECTION 3: Composition/information on ingredients

Hazardous ingredients

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
Aceton	CAS No.: 67-64-1 EC-No.: 200-662-2 Index-No.: 606-001-00-8 REACH No.: 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	25.0 – 50.0 % by weight
Butan (enthält >= 0,1 % Butadien (203-450-8))	CAS No.: 106-97-8 EC-No.: 203-448-7 Index-No.: 601-004-01-8 REACH No.: 01-2119474691-32	Flam. Gas 1; H220 Press. Gas; H280	10.0 – 25.0 % by weight
n-Butylacetat	CAS No.: 123-86-4 EC-No.: 204-658-1 Index-No.: 607-025-00-1 REACH No.: 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	10.0 – 25.0 % by weight
Propan	CAS No.: 74-98-6 EC-No.: 200-827-9 Index-No.: 601-003-00-5 REACH No.: 01-2119486944-21	Flam. Gas 1; H220 Press. Gas; H280	10.0 – 25.0 % by weight
2-Methoxy-1-methylethylacetat	CAS No.: 108-65-6 EC-No.: 203-603-9 Index-No.: 607-195-00-7 REACH No.: 01-2119475791-29	Flam. Liq. 3; H226	2.5 – 10.0 % by weight
Solvent naphtha (petroleum), light arom.	CAS No.: 64742-95-6 EC-No.: 265-199-0 Index-No.: 649-356-00-4 REACH No.: 01-2119455851-35	Asp. Tox. 1; H304 Flam. Liq. 3; H226 Aquatic Chronic 2; H411 STOT SE 3; H335-H336	< 2.5 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

In all cases of doubt, or when symptoms persist, seek medical advice.
In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

If inhaled

Provide fresh air.
Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

In case of skin contact

Take off immediately all contaminated clothing.
After contact clean skin thoroughly with water and soap oder use appropriate cleanser.
Do not use solvents or thinners.
The following must be prevented: UV-radiation/sunlight. (Sensitisation)

In case of eye contact

Remove contact lenses.
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical advice.
The following must be prevented: UV-radiation/sunlight. (Sensitisation)

If swallowed

In case of swallowing, get doctor immediately. Keep victim calm.
Do not induce vomiting.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media alcohol resistant foam; carbon dioxide; powder; spray mist, (water)

Extinguishing media which must not be used for safety reasons strong water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Special protective equipment for firefighting Provide a conveniently located respiratory protective device.

Additional information on firefighting Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Keep away from sources of ignition. Do not breathe vapours. Provide for good room ventilation. Observe protective provisions (see chapter 7 and 8).

6.2 Environmental precautions

Environmental precautions Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin and eyes. Do not inhale vapours or mist. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protective equipment: refer to chapter 8. Follow the legal protection and safety regulations.

Precautions Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used. This quality must not be used for products which come into contact with foods.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep container tightly closed. Do not empty containers with pressure – no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on storage assembly Keep away from strongly acidic and alkaline materials as well as oxidizers.

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Storage specifications

Always keep in containers that correspond to the material of the original container.

Protect from heat and direct sunlight. Keep away from sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Acetone

Germany

Value	Test material	Sampling time	Parameter	Source
80 mg/l	U	b	Aceton	14

Source: 14 - TRGS 903

Germany

Remarks	Ceiling Limit Value	Value / ppm	Value / mg/m3	Issuing date	Source
*1)	2(l)	500	1200	01/06	13

*1): Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der Deutschen Forschungsgemeinschaft. Europäische Union.

Source: 13 - TRGS 900

Austria

Area of validity	Frequency per shift	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Source
MAK	4x	500	1200	2000	4800	15(Miw)	15

Source: 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland

Value	Parameter	Sampling time	Remarks	Test material	Source
80 mg/l (1,38 mmol/l)	acetone, propan-2-one, propanone	b	N	U	87

Source: 87 - 87

Switzerland

Remarks	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Notationen	Kritische Toxizität	Source
NIOSH	500	1200	1000	2400	B	ZNS, Auge{KT HU} & AW{KT HU}	26

Source: 26 - Grenzwerte am Arbeitsplatz 2014 (SUVA)

Europe

Issuing date	Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Source
2000/39	1 210	500	24

Source: 24 - DIRECTIVE 2009/161/EU

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butane (containing = 0,1 % butadiene (203-450-8))

Germany

Remarks	Ceiling Limit Value	Value / ppm	Value / mg/m3	Issuing date	Source
DFG	4(II)	1000	2400	01/06	13

Source: 13 - TRGS 900

n-Butyl acetate

Germany

Remarks	Ceiling Limit Value	Value / ppm	Value / mg/m3	Issuing date	Source
*1)	2(I)	62	300	09/12	13

*1): Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden. Ausschuss für Gefahrstoffe.

Source: 13 - TRGS 900

Austria

Area of validity	Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Source
MAK	100	480	100	480	Mow	15

Source: 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland

Remarks	Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Notationen	Kritische Toxizität	Source
INRS, NIOSH	100	480	200	960	SSC	Auge{KT HU} & OAW{KT HU}	26

Source: 26 - Grenzwerte am Arbeitsplatz 2014 (SUVA)

Propane

Germany

Remarks	Ceiling Limit Value	Value / ppm	Value / mg/m3	Issuing date	Source
*1)	4(II)	1000	1800	01/06	13

*1): Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der Deutschen Forschungsgemeinschaft.

Source: 13 - TRGS 900

Austria

Area of validity	Frequency per shift	Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Source
MAK	3x	1000	1800	2000	3600	60(Mow)	15

Source: 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland

Remarks	Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Kritische Toxizität	Source
NIOSH	1000	1800	4000	7200	Arrh, ZNS	26

Source: 26 - Grenzwerte am Arbeitsplatz 2014 (SUVA)

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1-Methoxy-2-propanol acetate

Germany

Remarks	Ceiling Limit Value	Value / ppm	Value / mg/m3	Issuing date	Source
*1)	1(l)	50	270	01/06	13

*1): Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der Deutschen Forschungsgemeinschaft. Europäische Union. Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden.

Source: 13 - TRGS 900

Austria

Area of validity	Skin re-sorption / sensibilisation	Frequency per shift	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Duration	Source
MAK	H	8x	50	275	100	550	5(Mow)	15

Source: 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland

Remarks	Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Notationen	Kritische Toxizität	Source
*1)	50	275	50	275	SSC	OAW{KT AN}	26

*1): KZGW darf im Mittel auch während 15 Minuten nicht überschritten werden.

Source: 26 - Grenzwerte am Arbeitsplatz 2014 (SUVA)

Europe

Issuing date	Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	Short-term exposure value / ppm	Note	Source
2000/39	275	50	550	100	Skin	24

Source: 24 - DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection	When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used.
Hand protection	Wear suitable gloves.
Suitable material:	PE (polyethylene).
Unsuitable material:	PVC or rubber gloves are not recommended.
Reference substance:	Replace when worn. Protect skin by using skin protective cream.
Reference substance:	Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer.
Eye protection	Wear closely fitting protective glasses in case of splashes.
Skin and body protection	Wear suitable protective clothing.
General protective and hygiene measures	After contact clean skin thoroughly with water and soap oder use appropriate cleanser. Do not use any organic solvents.
Engineering measures	Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

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Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	gaseous
Colour	Take care of instructions on label.
Odour	charakteristisch
pH	Not determined.
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Reference substance:	Aerosol
Explosion limits [Vol-%]	
Lower limit:	1.2
Upper limit:	10.9
Vapour pressure [kPa]	83
Temperature:	20° C
Density [g/cm ³]	0.86 g/cm ³
Temperature:	20°C

9.2 Other information

Ignition temperature [°C]	333
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SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition	Hazardous decomposition byproducts may form with exposure to high temperatures.
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10.4 Conditions to avoid

Conditions to avoid	heat. strong ultraviolet radiation
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10.5 Incompatible materials

Materials to avoid	Keep away from free radical initiators, peroxides, strong alkaline material and reactive metals. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it.
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10.6 Hazardous decomposition products

Hazardous decomposition products	Hazardous decomposition byproducts may form with exposure to high temperatures. (nitrogen oxides, carbon monoxide, carbon dioxide, smoke)
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Irritant effect on skin	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin.
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Irritant effect on eyes Liquid splashes can lead to irritations of the eyes.

Dermal absorption data The product can arrive by the skin into the body.

11.2 Additional information

Experience in practice Liquid splashes can lead to irritations of the eyes. Inhaling of droplets in the air or aerosols may lead to irritations of the respiratory tract. Ingestion may cause nausea, weakness and affect the central nervous system.

Other information (chapter 11.) The product has not been tested. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

12.1 Toxicity

12.6 Other adverse effects

Further information on ecology Do not empty into drains. Do not allow to enter into soil/subsoil. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

SECTION 13: Disposal considerations

13.1 Waste treatment methods


Disposal considerations Do not empty into drains. Do not allow to enter into soil/subsoil.

Waste Code Waste code CH/EU: 080111

Nature of the waste Use whole contents when opening.

Uncleaned empty packaging Completely emptied containers are to be recycled as discarded metal or to be reconditioned. Vessels not properly emptied are special waste. (Waste key number 150110) 150110 – Packing, which is polluted by dangerous materials or which is contaminated with dangerous materials.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.3 Transport hazard class(es)	2	2.1	2.1
14.2 Description of the goods	AEROSOLS	AEROSOLS	
14.2 UN proper shipping name		AEROSOLS	Aerosols, flammable
Labels	2.1 	2.1	2.1
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
14.1 UN-No	1950	1950	1950
EmS		F-D;S-U	
Stowage category		B	
Remarks		(above 1 L) flammable	

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14.8 Additional information

Other information (chapter 14.) Transport according to ADR/RID, IMDG and ICAO/IATA.

SECTION 15: Regulatory information

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

VOC	85.1
EU (g/l):	731.9
CH (g/kg):	851
Decopaint regulation	2004/42/IIA(j)140(2010)59
Restriction of occupation.	Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

SECTION 16: Other information

Relevant H-phrases	H220: Extremely flammable gas. H222: Extremely flammable aerosol. H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. \$PHRASE:h_saetze;H229:PHRASE\$ H280: Contains gas under pressure; may explode if heated. H304: May be fatal if swallowed and enters airways. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.								
Wording of the hazard classes	Flam. Aerosol: Flammable aerosol Eye Irrit.: Serious eye irritation STOT SE: Specific target organ toxicity – single exposure Flam. Liq.: Flammable liquid Flam. Gas: Flammable gas Press. Gas: Gases under pressure Asp. Tox.: Aspiration hazard Aquatic Chronic: Hazardous to the aquatic environment								
Modifications since last version	The safety data sheets of the products referred by you were revised due to important new information regarding security, health or environmental protection.								
Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]	<table border="1"><thead><tr><th>Classification</th><th>evaluation</th></tr></thead><tbody><tr><td>Flam. Aerosol 1; H222</td><td></td></tr><tr><td>Eye Irrit. 2; H319</td><td></td></tr><tr><td>STOT SE 3; H336</td><td></td></tr></tbody></table>	Classification	evaluation	Flam. Aerosol 1; H222		Eye Irrit. 2; H319		STOT SE 3; H336	
Classification	evaluation								
Flam. Aerosol 1; H222									
Eye Irrit. 2; H319									
STOT SE 3; H336									
Processing notes	Observe technical data sheet.								
Further information	Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. It is always the user's duty to take any necessary measures for meeting								

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the requirements laid down by local rules and regulations.

Recommended restrictions

Only Qualified for the application to our manufacturing instruction or our product recommendation. For other usage we provide no warranty resp. exclude liability.

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.