

plus6 Werkzeuge GmbH & Co. KG

according to Regulation (EC) No 1907/2006

Sprühkleber-Spray

Revision date: 15.08.2016

Product code: 84111

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

1.1. Product identifier

Sprühkleber-Spray

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

Use of the substance/mixture

Adhesives.

Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Company name:	plus6 Werkzeuge GmbH & Co. KG	
Street:	Gewerbepark 9	
Place:	DE-06917 Jessen	
Telephone:	+49(0)3877/95747-60	Telefax: +49(0)3877/95747-62
e-mail:	info@plus6.de	
Contact person:	Ulrike Steinke	Telephone: +49(0)3877/95747-60
e-mail:	info@plus6.de	
Internet:	www.plus6.de	
Responsible Department:	Sicherheitsdatenblätter / Datenmanagement	

1.4. Emergency telephone number:

Giftnotruf Berlin +49 (0) 30/30686 700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

pentane

butanone; ethyl methyl ketone

Signal word: Danger

Pictograms:



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Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

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.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional advice on labelling

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

2.3. Other hazards

Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture related information

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
	naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			25 - < 50 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
115-10-6	dimethyl ether			10 - < 25 %
	204-065-8	603-019-00-8	01-2119472128-37	
	Flam. Gas 1; H220			
109-66-0	pentane			10 - < 25 %
	203-692-4	601-006-00-1	01-2119459286-30	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066			
106-97-8	butane			2,5 - < 10 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1; H220			
74-98-6	propane			2,5 - < 10 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1; H220			
78-93-3	butanone; ethyl methyl ketone			2,5 - < 10 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. Seek medical attention if problems persist.

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

Remove contaminated clothing immediately and dispose off safely.

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

Caution if victim vomits: Risk of aspiration! Medical treatment necessary.

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

The following symptoms may occur: difficulties of breathing. Headache. Drowsiness Dizziness. Coughing. Nausea

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

Caution if victim vomits: Risk of aspiration! In all cases of doubt, or when symptoms persist, seek medical advice. Subsequent observance for pneumonia and lung oedema.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Ventilate affected area.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition. - No smoking. Flammable vapours can accumulate in head space of closed systems.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

Further information on handling

Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

No data available

Further information on storage conditions

Protect against: heat. UV-radiation/sunlight.

7.3. Specific end use(s)

After use replace the closing cap immediately. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
109-66-0	Pentane	600	1800		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	Substance	DNEL type	Exposure route	Effect	Value
109-66-0	pentane	Consumer DNEL, long-term	oral	systemic	214 mg/kg bw/day
		Consumer DNEL, long-term	dermal	systemic	214 mg/kg bw/day
		Worker DNEL, long-term	dermal	systemic	432 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	643 mg/m ³
		Worker DNEL, long-term	inhalation	systemic	3000 mg/m ³
		78-93-3	butanone; ethyl methyl ketone	Consumer DNEL, long-term	oral
Consumer DNEL, long-term	dermal			systemic	412 mg/kg bw/day
Worker DNEL, long-term	dermal			systemic	1161 mg/kg bw/day
Consumer DNEL, long-term	inhalation			systemic	106 mg/m ³
Worker DNEL, long-term	inhalation			systemic	600 mg/m ³

8.2. Exposure controls

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

Tightly sealed safety glasses. DIN EN 166

Hand protection

Protect skin by using skin protective cream.

Hand protection: NBR (Nitrile rubber). DIN EN 374

Thickness of glove material: 0,5 mm

penetration time (maximum wearing period): 240 min

Breakthrough times and swelling properties of the material must be taken into consideration.

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Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). DIN EN 13034

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filter type: AX (for group 2 low boilers). In case of a maximum contaminant concentration in inhaled air of 1000 mL/m³ (0.1 % by vol.), group 2 may be used for a maximum of 60 min. In case of a maximum contaminant concentration in inhaled air of 5000 mL/m³ (0.5 % by vol.), group 2 may be used for a maximum of 20 min.

Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: white
 Odour: characteristic

Test method

Changes in the physical state

Melting point: Not applicable, aerosol
 Initial boiling point and boiling range: - 44 °C
 Flash point: - 97 °C

Explosive properties

not Explosive.
 In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: 1,1 vol. %
 Upper explosion limits: 18,6 vol. %
 Ignition temperature: > 200 °C
 Vapour pressure: 5200 hPa
 (at 20 °C)
 Density (at 20 °C): 0,71 g/cm³
 Solvent content: 83 %

9.2. Other information

Solid content: 17 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Ignition hazard.

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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

Further information

In case of exceeding the storage temperature: Danger of bursting container.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
	naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
	oral	LD50 > 5840 mg/kg	Rat	
	dermal	LD50 > 2920 mg/kg	Rat	
	inhalative (4 h) aerosol	LC50 23,3 mg/l	Rat	
109-66-0	pentane			
	inhalative (4 h) vapour	LC50 364 mg/l	Rat	GESTIS
106-97-8	butane			
	inhalative (4 h) gas	LC50 658 ppm	Rat	GESTIS
74-98-6	propane			
	inhalative (4 h) aerosol	LC50 20 mg/l	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. ((naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics); (pentane))

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Leakage into the environment must be prevented.

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
	naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics				
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna
109-66-0	pentane				
	Acute crustacea toxicity	EC50	9,74 mg/l	48 h	Daphnia magna
					IUCLID

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
109-66-0	pentane	3,39
106-97-8	butane	2,89
74-98-6	propane	2,36

12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Toxic to fish. Toxic to aquatic organisms.

Further information

Doesn't get into the sewage water as long as the process is carried out according to regulations.
hazardous to water (WGK 2)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

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 hazardous 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 hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Dispose of waste according to applicable legislation.

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SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
	
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
	
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

Marine transport (IMDG)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
	
Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1

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14.4. Packing group:

Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

Other applicable information

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: butane

2004/42/EC (VOC): VOC-value (in g/L): 588
 Volatile organic compounds (VOC) content in percent by weight: 83

Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information: E2

National regulatory information

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

This data sheet contains changes from the previous version in section(s): 1,2,3,4,6,7,8,9,10,12,14,15,16.

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H225 Highly flammable liquid and vapour.

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H229	Pressurised container: May burst 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.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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