

Spray adhesive
Article number: 13 90 05
Buehler GmbH
D-40599 Düsseldorf



1 Identification of the substance / preparation and of the company

Spray adhesive
Article number: 13 90 05

Use: see product designation
Identified use: none
Method of operation: See product information.
Company: Buehler GmbH
In der Steele 2
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Responsible: Schroeder@chemiebuero.de

2 Hazards identification

Physico-chemical hazards: See chapter 10.

Other hazards: none

Hazard symbols:



Extremely flammable



Irritant

R-phrases:
R 12: Extremely flammable.
R 36: Irritating to eyes.
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 66: Repeated exposure may cause skin dryness or cracking.
R 67: Vapours may cause drowsiness and dizziness.

3 Composition / Information on ingredients

Range [%]	Substance
25 - 35	Acetone
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2 EU-INDEX: 606-001-00-8 ECB-Nr.:
	GHS/CLP: Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, H225, H319, H336
	EEC: F-Xi, R11-36-66-67
10 - 20	Propane
	CAS: 74-98-6, EINECS/ELINCS: 200-827-9 EU-INDEX: 601-003-00-5 ECB-Nr.:
	GHS/CLP: Flam. Gas 1, Press. Gas (*), H220
	EEC: F+, R12
10 - 20	Butane
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7 EU-INDEX: 601-004-00-0 ECB-Nr.:
	GHS/CLP: Flam. Gas 1, Press. Gas (*), H220
	EEC: F+, R12
7 - <12	Naphtha (petroleum), hydrodesulfurized light, dearomatized
	CAS: 92045-53-9, EINECS/ELINCS: 295-434-2 EU-INDEX: 649-383-00-1 ECB-Nr.:
	GHS/CLP: -
	EEC: F-Xn-N, R11-38-51/53-65-67
5 - 10	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2 EU-INDEX: 601-004-00-0 ECB-Nr.:
	GHS/CLP: Flam. Gas 1, Press. Gas (*), H220
	EEC: F+, R12
5 - <7,5	Naphtha (petroleum), hydrotreated light
	CAS: 64742-49-0, EINECS/ELINCS: 265-151-9 EU-INDEX: 649-328-00-1 ECB-Nr.:
	GHS/CLP: -
	EEC: Xn-F-N, R11-38-51/53-65-67
2,5 - <10	Pentane
	CAS: 109-66-0, EINECS/ELINCS: 203-692-4 EU-INDEX: 601-006-00-1 ECB-Nr.:
	GHS/CLP: Flam. Liq. 1, Asp. Tox 1, STOT SE 3, Aquatic Chronic 2, H225, H304, H336, H411
	EEC: F+-Xn-N, R12-51/53-65-66-67
0,5 - 1,5	Isopentane
	CAS: 78-78-4, EINECS/ELINCS: 201-142-8 EU-INDEX: 601-006-00-1 ECB-Nr.:
	GHS/CLP: -
	EEC: F+-Xn-N, R12-51/53-65-66-67
0,1 - <0,5	n-Hexane
	CAS: 110-54-3, EINECS/ELINCS: 203-777-6 EU-INDEX: 601-037-00-0 ECB-Nr.:
	GHS/CLP: Flam. Liq. 2, Repr. 2, Asp. Tox 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2, H225, H361f, H304, H373, H315, H336, H411
	EEC: F-Xn-N-Rep.Cat. 3, R11-38-48/20-51/53-62-65-67

Comment on component parts:

Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures**General information:**

Change soaked clothing.

Inhalation:

Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

Skin contact:

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact:

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion:

not applicable

Advice to doctor:

Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media:	Carbon dioxide. Foam. Dry powder. Water spray jet.
Extinguishing media that must not be used:	Full water jet.
Special exposure hazards arising from the substance or preparation itself or combustion products:	Unknown risk of formation of toxic pyrolysis products. Bursting aerosols can be forcibly projected from a fire.
Special protective equipment for firefighters:	Use self-contained breathing apparatus.
Additional information:	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures

Personal precautions:	Keep away from all sources of ignition. Ensure adequate ventilation.
Environmental precautions:	not applicable
Methods for cleaning up:	Take up mechanically. Dispose of absorbed material in accordance with the regulations. Take up residues with absorbent material (e.g. sand).

7 Handling and storage

Advice on safe handling:	Use solvent-resistant equipment. Use only in well-ventilated areas.
Advice on protection against fire and explosion:	Keep away from all sources of ignition - Refrain from smoking. Vapours can form an explosive mixture with air.
Requirements for storage rooms and vessels:	Provide solvent-resistant and impermeable floor.
Advice on storage compatibility:	Do not store together with oxidizing agents.
Further information on storage conditions:	Keep container in a well-ventilated place. Protect from heat/overheating.

8 Exposure controls / personal protection

Additional advice on system design: Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

Range [%]	Substance / WEL: Workplace exposure limit
7 - < 12	Naphtha (petroleum), hydrodesulfurized light, deaeromatized / - ppm, 1200 mg/m ³ , -
5 - < 7,5	Naphtha (petroleum), hydrotreated light / - ppm, 1200 mg/m ³ , -
5 - 10	iso-Butane / 600 ppm, 1450 mg/m ³ , n-Butane
25 - 35	Acetone / 500 ppm, 1210 mg/m ³ , -
10 - 20	Butane / 600 ppm, 1450 mg/m ³ , -
1 - < 3,5	Pentane / 600 ppm, 1800 mg/m ³ , -
0,5 - < 1,5	Isopentane / 600 ppm, 1800 mg/m ³ , -
0,1 - < 0,5	n-Hexane / 20 ppm, 72 mg/m ³ , EU

Respiratory protection: Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, combination filter A-P2.

Hand protection: Butyl rubber, >120 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.

Eye protection: Safety glasses.

Skin protection: not applicable

General protective measures: Avoid contact with eyes and skin.
Do not inhale gases/vapours/aerosols.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Hygiene measures: Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

Delimitation and monitoring of the environmental exposition: not determined

9 Physical and chemical properties

Form: aerosol
Color: white
Odor: characteristic
pH-value: not applicable
pH-value [1%]: not applicable
Boiling point [°C]: not applicable
Flash point [°C]: not applicable
Flammability [°C]: not applicable
Lower explosion limit: 1,0 Vol.%
Upper explosion limit: 13,0 Vol.%
Oxidizing properties: no
Vapour pressure [kPa]: not determined
Density [g/ml]: 0,71 (20°C / 68,0°F)
Bulk density [kg/m³]: not applicable
Solubility in water: insoluble
Partition coefficient [n-octanol/water]: not determined
Viscosity: not applicable
Relative vapour density determined in air: not applicable
Evaporation speed: not applicable
Melting point [°C]: not applicable
Autoignition temperature [°C]: not applicable
Decomposition temperature: not applicable


10 Stability and reactivity

Hazardous reactions:	Risk of bursting. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Hazardous decomposition products:	Flammable gases/vapours.

11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none
General remarks:	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.




12 Ecological information

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not determined
Bacteria toxicity:	not determined
Biological degradability:	not determined
COD:	not determined
BOD 5:	not determined
AOX-advice:	not determined
2006/11/EC:	yes
General information:	The product was classified on the basis of the calculation procedure of the preparation directive.



13 Disposal considerations

Product:	Coordinate disposal with the authorities if necessary.
Contaminated packaging:	Uncontaminated packaging may be taken for recycling.
Waste no. (recommended):	160504* gases in pressure containers (including halons) containing dangerous substances

14 Transport information

Classification according to ADR:	UN 1950 AEROSOLS 2.1
- Classification Code:	5F
- Label:	
- ADR LQ	LQ2: 1 I
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 2 (D)
Classification according to IMDG:	UN 1950 Aerosols 2.1 -
- EMS	F-D, S-U
- Label:	
- IMDG LQ	1 I
Classification according to IATA:	UN 1950 Aerosols, flammable 2.1
- Label:	

15 Regulatory information

Exposure scenario:	not determined
Chemical safety report:	not determined
Labelling:	The product is classified and labelled in accordance within EC-directives.
Hazard symbols:	 
R-phrases:	<p>Extremely flammable</p> <p>Irritant</p> <p>R 12: Extremely flammable.</p> <p>R 36: Irritating to eyes.</p> <p>R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R 66: Repeated exposure may cause skin dryness or cracking.</p> <p>R 67: Vapours may cause drowsiness and dizziness.</p>
S-phrases:	<p>S 23.4: Do not breathe spray.</p> <p>S 24/25: Avoid contact with skin and eyes.</p> <p>S 51: Use only in well-ventilated areas.</p>
Special labelling:	<p>Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.</p> <p>Do not pierce or burn, even after use.</p> <p>Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.</p> <p>Keep out of the reach of children.</p>
EEC-REGULATIONS:	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable

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Buehler GmbH

D-40599 Düsseldorf



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16 Other informations

R-phrases (Chapter 03):

R 11: Highly flammable.
R 36: Irritating to eyes.
R 66: Repeated exposure may cause skin dryness or cracking.
R 67: Vapours may cause drowsiness and dizziness.
R 12: Extremely flammable.
R 38: Irritating to skin.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65: Harmful - may cause lung damage if swallowed.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 62: Possible risk of impaired fertility.

Hazard statements (Chapter 03):

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.

Observe employment restrictions for people:

yes

VOC (1999/13/CE):

~90%

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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