



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

1.1. Product identifier

Name of product Adhesive Spray -for detachable joints
Code-Nr. 118020

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

Recommended intended purpose(s)

Technical Aerosols

1.3. Details of the supplier of the safety data sheet

Distributor

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

! SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Aerosol 1	H222, H229	
Aquatic Chronic 3	H412	

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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



GHS02

! Signal word

Danger

Hazard Statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

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.
 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.
 P501 Dispose of contents/container to hazardous or special waste collection point.

2.3. Other hazards

Product has an anesthetic effect.

! Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Description

Mixture of active ingredients with propellant

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
74-98-6	200-827-9	propane	10 - 25	Flam. Gas 1, H220 / Press. Gas
75-28-5	200-857-2	isobutane	2,5 - 10	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	25 - 50	Flam. Gas 1, H220 / Press. Gas
108-05-4	203-545-4	vinyl-acetate	0,1 < 0,2	Flam. Liq. 2, H225 / Carc. 2, H351 / Acute Tox. 4, H332 / STOT SE 3, H335
141-78-6	205-500-4	ethyl-acetate	< 2,5	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336



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Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
109-87-5	203-714-2	Dimethoxymethan; Formal	25 - 50	Flam. Liq. 2, H225
142-82-5	205-563-8	heptane	0,25 - 1	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410 / Skin Irrit. 2, H315 / STOT SE 3, H336
64742-49-0	931-254-9	Hydrocarbons, C6, isoalkanes, <5% n- hexane	0,25 < 1	Flam. Liq. 2, H225 / Asp. Tox. H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	2,5 < 10	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336

REACH

CAS No	Name	REACH registration number
74-98-6	propane	01-2119486944-21
75-28-5	isobutane	01-2119485395-27
106-97-8	butane	01-2119474691-32
108-05-4	vinyl-acetate	01-2119471301-50
141-78-6	ethyl-acetate	01-2119475103-46
142-82-5	heptane	01-2119457603-38
64742-49-0	Hydrocarbons, C6, isoalkanes, <5% n-hexane	01-2119484651-34
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	01-2119475515-33

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with water.

Consult a doctor if skin irritation persists.

In case of eye contact

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

In case of ingestion

Do not induce vomiting.

Medical treatment.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder

Carbon dioxide

sand



Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

! SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains or bodies of water..

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Allow to vaporise.

Take up residues with suitable absorbent materials.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

! SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ventilate closed rooms at ground level.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

! Hygiene measures

At work do not eat, drink, smoke or take drugs.

Wash soiled clothing immediately.

Keep away from food and drink.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Do not spray on a naked flame or any incandescent material.



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Pressurized container.
Do not pierce or burn even after use.
Protect from heat and sunlight.
Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.
Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

! Advice on storage compatibility

Do not store together with food.
Do not store together with oxidizing agents.

! Further information on storage conditions

Store only at temperature of 40°C maximum (=104°F).
Protect from heat and direct solar radiation.
Store container at cool and aired place.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
106-97-8	Butane	8 hours Short-term	1450 1810	600 750	EH40/2005
109-87-5	Dimethoxymethane	8 hours Short-term	3160 3950	160 1250	EH40/2005
141-78-6	Ethyl acetate	8 hours Short-term		200 400	EH40/2005
106-97-8	Butan (CH)	MAK, 8 hours Short-term	1900 7600	800 3200	ZNS
74-98-6	Propan (CH)	MAK, 8 hours Short-term	1800 7200	1000 4000	Formal, Methode: NIOSH
141-78-6	Ethylacetat (CH)	MAK, 8 hours Short-term	2800 1400	800 400	OAW, Auge, Methode: INRS, NIOSH
75-28-5	iso-Butan (CH)	MAK, 8 hours Short-term	7600 1900	3200 800	ZNS

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
108-05-4	vinyl-acetate	8 hours Short-term	17,6 35,2	5 10	

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
141-78-6	ethyl-acetate	734 mg/m3	DNEL long-term inhalative (local)	
		1468 mg/m3	DNEL acute inhalative (systemic)	



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DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		63 mg/kg	DNEL long-term dermal (systemic)	
		1468 mg/m ³	DNEL acute inhalative (local)	
64742-49-0	Hydrocarbons, C6, isoalkanes, <5% n-hexane	5306 mg/m ³	DNEL acute inhalative (systemic)	
		13964 mg/kg bw/day	DNEL long-term dermal (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
141-78-6	ethyl-acetate	0,24 mg/l	PNEC aquatic, freshwater	
		0,024 mg/l	PNEC aquatic, marine water	
		0,115 mg/kg	PNEC sediment, marine water	
		0,34 mg/kg	PNEC sediment, freshwater	

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short term: filter apparatus, Filter A/P2

! Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Butyl rubber; 0,7 mm; 480min; 60min, "Butoject 898" from KCL; Email: Vertrieb@kcl.de

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

PVA gloves

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colourless

Odour

ethereal

Odour threshold



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not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
boiling point	-44 °C				
Melting point / Freezing point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	235 °C				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	1,5 Vol-%				
Upper explosion limit	10,9 Vol-%				
Vapour pressure	3 - 5 bar	20 °C			
Relative density	0,66 g/cm ³	20 °C			
Vapour density	not determined				
Solubility in water					partially miscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not determined				
Viscosity kinematic	not determined				
Solvent content	38,9 %				
Solids content	4 %				

Oxidising properties

No information available.

Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

**9.2. Other information**

No information available.

! SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

Risk of bursting.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	2920 mg/kg	rat		CAS: 108-05-4
LD50 acute dermal	2335 mg/kg	rabbit		CAS: 108-05-4
LC50 acute inhalation	> 20 mg/l (4 h)	rat		Isobutane
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	non-sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.



Value	Species	Method	Validation
Reproduction-Toxicity			No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity			No indications of carcinogenic effects are available from long-term trials.
Experiences made from practice Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation. When inhaled, reaction time and coordination sense may be reduced. Inhalation causes narcotic effect/intoxication.			
Additional information The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded.			

! SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

! General regulation

Toxic to aquatic life, fishes and plankton.

Even in the event of low quantities penetration into the underground drinking water is contaminated.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

! Waste code No.

16 05 04*

Name of waste

gases in pressure containers (including halons) containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

For proper waste disposal a complete emptying of the tin is necessary.



Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

Caution: Gases

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 2.1

tunnel restriction code D

Classification code 5F

transport in "limited quantities" according to 3.4 ADR is possible

! Transport/further information

Marine pollutant: NO

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****! VOC standard**

VOC content 96 %

15.2. Chemical Safety Assessment

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

! SECTION 16: Other information**! Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.5



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H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.