# SAFETY DATA SHEET



Adhesive Spray for detachable joints

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

1.1 Product identifier	
Product name	: Adhesive Spray for detachable joints
UFI	: HQR1-K0EW-W00E-6W5T
Product code	: 118020
Color	: Colorless to light yellow.
Product type	: Aerosol.

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

Identified uses	
Aerosol product-Adhesives	
Uses advised against	Reason
	Reason

### 1.3 Details of the supplier of the safety data sheet

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WEICON GmbH & Co. KG	
Königsberger Str. 25,	
48157 Münster, Germany	
phone: +49 251 93220,	
Fax: +49 251 9322244	
email: info@weicon.de,	
URL: www.weicon.de	
e-mail address of person responsible for this SDS	: msds@weicon.de
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### 1.4 Emergency telephone number

#### National advisory body/Poison Center

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)

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Adhesive Spray for detachable joints

<b>SECTION 2: Hazards ident</b>	tification
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Hazard pictograms		
Signal word	: Danger	
Hazard statements	<ul> <li>H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated.</li> <li>H315 - Causes skin irritation.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements		
General	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.	
Prevention	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P251 - Do not pierce or burn, even after use.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves.</li> </ul>	I
Response	: P362 + P364 - Take off contaminated clothing and wash it before reuse.	
Storage	: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 5 °C/122 °F.	0
Disposal	: P501 - Dispose of waste according to applicable legislation.	
Supplemental label elements	: Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	ł
Other hazards which do not result in classification	: Aspiration hazard - Not applicable.	

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
butane	REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
dimethoxymethane	REACH #: 01-2119664781-31 EC: 203-714-2 CAS: 109-87-5	≥25 - ≤50	Flam. Liq. 2, H225	-	[2]
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propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
Isobutane	REACH #: 01-2119485395-27 EC: 200-857-2 CAS: 75-28-5 Index: 601-004-00-0	≥5 - ≤10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥1 - ≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Hydrocarbons, C6, isoalkanes, <5% n-hexane	EC: 931-254-9	≥1 - ≤3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
heptane	REACH #: 01-2119457603-38 EC: 205-563-8 CAS: 142-82-5 Index: 601-008-00-2	≥0.3 - <1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
cyclohexane	REACH #: 01-2119463273-41 EC: 203-806-2 CAS: 110-82-7 Index: 601-017-00-1	≥0.3 - <1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥0.3 - <1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
pentane	REACH #: 01-2119459286-30 EC: 203-692-4 CAS: 109-66-0 Index: 601-006-00-1	≥0.1 - ≤0.2	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1] [2]
vinyl acetate	REACH #: 01-2119471301-50 EC: 203-545-4 CAS: 108-05-4 Index: 607-023-00-0	≤0.1	Flam. Liq. 2, H225 Acute Tox. 4, H332 Carc. 2, H351 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11.4 mg/l	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

Adhesive Spray for detachable joints

### **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

<u>Over-exposure signs/sym</u>	<u>ptoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
4.3 Indication of any immediate medical attention and special treatment needed		

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	!
Specific treatments	: No specific treatment.	

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials fo	r c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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### **SECTION 6: Accidental release measures**

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne

7.3 Specific end use(s)
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Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
butane	TRGS 900 OEL (Germany, 7/2021).
	TWA: 2400 mg/m <sup>3</sup> 8 hours.
	PEAK: 9600 mg/m <sup>3</sup> 15 minutes.
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). [Butane]
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm, 4 times per shift, 15 minutes.
	TWA: 2400 mg/m <sup>3</sup> 8 hours.
	PEAK: 9600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
limethoxymethane	TRGS 900 OEL (Germany, 4/2023).
	TWA: 1600 mg/m <sup>3</sup> 8 hours.
	TWA: 500 ppm 8 hours.
	PEAK: 3200 mg/m <sup>3</sup> 15 minutes.
	PEAK: 1000 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 500 ppm 8 hours.
	PEAK: 1000 ppm, 4 times per shift, 15 minutes.
	TWA: 1600 mg/m <sup>3</sup> 8 hours.
	PEAK: 3200 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
propane	TRGS 900 OEL (Germany, 4/2023).
	TWA: 1800 mg/m <sup>3</sup> 8 hours.
	PEAK: 7200 mg/m <sup>3</sup> 15 minutes.
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm, 4 times per shift, 15 minutes.
	TWA: 1800 mg/m <sup>3</sup> 8 hours.
	PEAK: 7200 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
sobutane	TRGS 900 OEL (Germany, 7/2021).
	TWA: 2400 mg/m <sup>3</sup> 8 hours.
	PEAK: 9600 mg/m <sup>3</sup> 15 minutes.
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). [Butane]
	TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm, 4 times per shift, 15 minutes.
	TWA: 2400 mg/m <sup>3</sup> 8 hours.
	PEAK: 9600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
thyl acetate	TRGS 900 OEL (Germany, 4/2023).
	TWA: 730 mg/m <sup>3</sup> 8 hours.
	PEAK: 1460 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 750 mg/m <sup>3</sup> 8 hours.
	PEAK: 1500 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
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heptane	TRGS 900 OEL (Germany, 4/2023).
	TWA: 2100 mg/m³ 8 hours.
	PEAK: 2100 mg/m <sup>3</sup> 15 minutes.
	TWA: 500 ppm 8 hours.
	PEAK: 500 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 500 ppm 8 hours.
	PEAK: 500 ppm, 4 times per shift, 15 minutes.
	TWA: 2100 mg/m <sup>3</sup> 8 hours.
	PEAK: 2100 mg/m³, 4 times per shift, 15 minutes.
cyclohexane	TRGS 900 OEL (Germany, 4/2023).
	TWA: 700 mg/m <sup>3</sup> 8 hours.
	PEAK: 2800 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 800 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 800 ppm, 4 times per shift, 15 minutes.
	TWA: 700 mg/m³ 8 hours. PEAK: 2800 mg/m³, 4 times per shift, 15 minutes.
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sopropyl alcohol	TRGS 900 OEL (Germany, 4/2023).
	TWA: 500 mg/m³ 8 hours.
	PEAK: 1000 mg/m <sup>3</sup> 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³, 4 times per shift, 15 minutes.
pentane	TRGS 900 OEL (Germany, 4/2023).
	TWA: 3000 mg/m <sup>3</sup> 8 hours.
	PEAK: 6000 mg/m <sup>3</sup> 15 minutes.
	TWA: 1000 ppm 8 hours.
	PEAK: 2000 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Pentane (all isomers
	TWA: 1000 ppm 8 hours.
	PEAK: 2000 ppm, 4 times per shift, 15 minutes. TWA: 3000 mg/m <sup>3</sup> 8 hours.
	PEAK: 6000 mg/m³, 4 times per shift, 15 minutes.
vinul apatata	TRGS 900 OEL (Germany, 4/2023). Absorbed through skin.
vinyl acetate	TWA: 36 mg/m <sup>3</sup> 8 hours.
	TWA: 30 mg/m 8 hours.
	PEAK: 36 mg/m <sup>3</sup> 15 minutes.
	PEAK: 10 ppm 15 minutes.
	CEIL: 20 ppm
	CEIL: 72 mg/m <sup>3</sup>
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	CEIL: 71 mg/m <sup>3</sup>
	CEIL: 20 ml/m <sup>3</sup>
	PEAK: 36 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	PEAK: 10 ppm, 4 times per shift, 15 minutes.
	TWA: 36 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.

### **SECTION 8: Exposure controls/personal protection**

### **Biological exposure indices**

Product/ingredient name heptane	Exposure indices DFG BEI-values list (Germany, 7/2022) BEI: 250 μg/l, heptane-2,5-dione [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 μg/l, heptane-2,5-dione [in urine]. Sampling time: end of exposure or end of shift.
cyclohexane	DFG BEI-values list (Germany, 7/2022) BEI: 150 mg/g creatinine, 1,2-cyclohexanediol (after hydrolysis) [in urine]. Sampling time: for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, 1,2-cyclohexanediol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long- term exposures: at the end of shift after several shifts.
propan-2-ol	<ul> <li>DFG BEI-values list (Germany, 7/2022)</li> <li>BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift.</li> <li>BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022)</li> <li>BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift.</li> <li>BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.</li> </ul>
procedures European Stan assessment of values and me atmospheres - of exposure to (Workplace atr for the measure	uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Short term Inhalation	734 mg/m³	General population	Systemic
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	DNEL	Long term Inhalation	734 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	734 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic
heptane	DNEL	Long term Oral	149 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	149 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	447 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	2085 mg/ m³	Workers	Systemic
cyclohexane	DNEL	Long term Oral	59.4 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	206 mg/m³	General population	Local
	DNEL	Long term Inhalation	206 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	412 mg/m³	General population	Local
	DNEL	Short term Inhalation	412 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	700 mg/m³	Workers	Local
	DNEL	Long term Inhalation	700 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1186 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1400 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1400 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	2016 mg/ kg bw/day	Workers	Systemic
pentane	DNEL	Long term Oral	214 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	214 mg/kg bw/day	General population	Systemic

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	DNEL	Long term Dermal	432 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	643 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	3000 mg/ m³	Workers	Systemic
vinyl acetate	DNEL	Long term Dermal	0.42 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17.6 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	17.6 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	35.2 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	35.2 mg/m <sup>3</sup>	Workers	Systemic

### **PNECs**

No PNECs available.

### 8.2 Exposure controls

Appropriate engineering controls	:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

### **SECTION 8: Exposure controls/personal protection**

Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 mormation on basic physical	ind chemical properties
<u>Appearance</u>	
Physical state	Gas. [Aerosol]
Color	Colorless to light yellow.
Odor	Characteristic.
Odor threshold	Not available.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	-44.5°C (-48.1°F)
Flammability	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
Lower and upper explosion limit	Lower: 1.1% Upper: 19.9%
Flash point	Closed cup: -97°C (-142.6°F)
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
рН	Not applicable.
Viscosity	Not applicable.
Not available.	
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not applicable.
Vapor pressure	1106.6 kPa (8300 mm Hg)
Relative density	Not applicable.
Density	0.682 g/cm³ [20°C (68°F)]
Vapor density	Not available.
Particle characteristics	
Median particle size	Not applicable.

### 9.1 Information on basic physical and chemical properties

#### 9.2 Other information

Date of issue/Date of revision

### **SECTION 9: Physical and chemical properties**

9.2.1 Information with rega	rd to physical hazard classes
Heat of combustion	: 38.53 kJ/g
Explosive properties	<ul> <li>Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.</li> </ul>
Oxidizing properties	: Not available.
<u>Aerosol product</u>	
Type of aerosol	: Spray
9.2.2 Other safety characte	ristics
Miscible with water	: No.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

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

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m³	4 hours
cyclohexane	LD50 Oral	Rat	6240 mg/kg	-
pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours
vinyl acetate	LC50 Inhalation Vapor	Rat	11400 mg/m³	4 hours
	LD50 Dermal	Rabbit	2335 mg/kg	-
	LD50 Oral	Rat	2900 mg/kg	-
Conclusion/Summary	: Not available.	•	•	

**Conclusion/Summary** 

Acute toxicity estimates

#### **SECTION 11: Toxicological information** Product/ingredient name Oral (mg/ Dermal Inhalation Inhalation kg) (mg/kg) (gases) (vapors) (ppm) (mg/l) ethyl acetate 5620 N/A N/A N/A heptane N/A 48000 103 N/A cyclohexane 6240 N/A N/A N/A 364 pentane N/A N/A N/A vinyl acetate 2335 11.4 2900 N/A

Irritation/Corrosion		
Conclusion/Summary	:	Not available.
Sensitization		
Conclusion/Summary	:	Not available.
<u>Mutagenicity</u>		
Conclusion/Summary	:	Not available.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
Teratogenicity		
Conclusion/Summary	:	Not available.
Our saif a tannat annau taniait	/	

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethyl acetate	Category 3	-	Narcotic effects
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Category 3	-	Narcotic effects
heptane	Category 3	-	Narcotic effects
cyclohexane	Category 3	-	Narcotic effects
pentane	Category 3	-	Narcotic effects
vinyl acetate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C6, isoalkanes, <5% n-hexane	ASPIRATION HAZARD - Category 1
heptane	ASPIRATION HAZARD - Category 1
cyclohexane	ASPIRATION HAZARD - Category 1
pentane	ASPIRATION HAZARD - Category 1

# Information on the likely: Not available.routes of exposurePotential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.

Inhalation (dusts

and mists)

(mg/l)

N/A

N/A

N/A

N/A

N/A

### **SECTION 11: Toxicological information**

- **Skin contact** : Causes skin irritation.
- **Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
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### **SECTION 12: Ecological information**

	Chronic NOEC 2.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days	
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days	
heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours	
cyclohexane	Acute LC50 4530 μg/l Fresh water	Fish - Pimephales promelas	96 hours	
vinyl acetate	Acute LC50 10000 to 100000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i> - Larvae	48 hours	
	Acute LC50 14000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
Conclusion/Summary	· Not available			

Conclusion/Summary : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethyl acetate	0.68	30	Low
heptane	4.66	552	High
cyclohexane	3.44	167	Low
pentane	3.45	171	Low
vinyl acetate	0.73	3.16	Low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

### Product

SECTION 13:	Disposal co	nsiderations
-------------	-------------	--------------

Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.		
Hazardous waste	: Yes.		
European waste catalog	<u>gue (EWC)</u>		
Waste code	Waste designation		
16 05 04*	gases in pressure containers (including halons) containing hazardous substances		
Packaging	+		
Methods of disposal	packaging s	tion of waste should be avoided or minimized wherever possible. Waste should be recycled. Incineration or landfill should only be considered ing is not feasible.	
Type of packaging		European waste catalogue (EWC)	
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions		al and its container must be disposed of in a safe way. Empty containers y retain some product residues. Do not puncture or incinerate container.	

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	EROSOLS (butane, dimethoxymethane)	EROSOLS (butane, dimethoxymethane)	ÆEROSOLS (butane, dimethoxymethane)	erosols, flammable (butane, dimethoxymethane)
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Yes.	No.	No.	No.

Additional information

ADR/RID	<ul> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> <li><u>Limited quantity</u> 1 L</li> <li><u>Special provisions</u> 190, 327, 625, 344</li> <li><u>Tunnel code</u> (D)</li> </ul>
ADN IMDG	ADR Classification Code:         5F           Special provisions         190, 327, 625, 344           Emergency schedules         F-D, S-U           Special provisions         63, 190, 277, 327, 344, 381, 959

### **SECTION 14: Transport information**

		Passenger Aircraft: 30 kg. Packaging instructions: Y203. <u>Special provisions</u> A145, A167, A802
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime transport in bulk according to IMO instruments	:	Not available.
instruments		

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

### Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.

## Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]		
butane propane isobutane cyclohexane	≥25 - ≤50 ≥10 - ≤25 ≥5 - ≤10 ≥0.3 - <1	40 40 40 57 [Neoprene-based contact adhesive]		
Labeling : Not	applicable.			
Other EU regulations				
Industrial emissions : Not (integrated pollution prevention and control) - Air	listed			
Industrial emissions : Not (integrated pollution prevention and control) - Water	listed			
Explosive precursors : Not	applicable.			
Ozone depleting substances (1005/2009/EU) Not listed.				
Prior Informed Consent (PIC) (649/2012/EU) Not listed.				
Persistent Organic Pollutants Not listed.				
Aerosol dispensers :				
	3			

Adhesive Spray for detachable joints

### SECTION 15: Regulatory information



Extremely flammable

#### Seveso Directive

This product is controlled under the Seveso Directive.

<u>Danger criteria</u>	
Category	
P3a	
VOC content	: 95.56 %
VOC (g/L)	: 651.7

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
vinyl acetate	DFG MAC-values list	Vinyl acetate	K4	-

### Storage class (TRGS 510) : 2B

#### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

#### Danger criteria

Categor	у	Reference number
P3a		1.2.3.1

### Hazard class for water : 2

Technical instruction on : TA-Luft Number 5.2.5: 65.2-100%

### air quality control International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

Inventory list					
Australia	:	Not determined.			
Canada	:	: Not determined.			
China	:	: Not determined.			
Eurasian Economic Union	:	Russian Federation inventory: Not	determined.		
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.				
New Zealand	: Not determined.				
Philippines	:	Not determined.			
Republic of Korea	:	Not determined.			
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### **SECTION 15: Regulatory information**

Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]</li> </ul>
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	On basis of test data Expert judgment Calculation method

#### Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if
	heated.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
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.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Full text of classifications [CLP/GHS]

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Flam. Gas 1A		FLAMMABLE GASE	ES - Category 1A		
Eye Irrit. 2		SERIOUS EYE DAN		TION - Category 2	
Carc. 2		CARCINOGENICIT			
Asp. Tox. 1		ASPIRATION HAZA	RD - Category 1		
Aquatic Chronic 3		AQUATIC HAZARD	(LONG-TERM) - Ca	ategory 3	
Aquatic Chronic 2		AQUATIC HAZARD	(LONG-TERM) - C	ategory 2	
Aquatic Chronic 1		AQUATIC HAZARD	(LONG-TERM) - C	ategory 1	
Aquatic Acute 1		AQUATIC HAZARD	AQUATIC HAZARD (ACUTE) - Category 1		
Aerosol 1		AEROSOLS - Categ	gory 1		
Acute Tox. 4		ACUTE TOXICITY -	<ul> <li>Category 4</li> </ul>		

SECTION 16: Other information				
Flam. Liq. 2 Press. Gas (Comp.) Skin Irrit. 2 STOT SE 3		FLAMMABLE LIQUIDS - Category 2 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3		
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Notice to reader				

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