

# Bauder Thermofol Contact Adhesive (red)

## safety data sheet as per 1907/2006 (REACH), Annex II

Revision date: May 2022      Supersedes : 03.06.2015

### COMPANY UNDERTAKING

Bauder Limited	W: bauder.co.uk
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Ipswich	E: info@bauder.co.uk
Suffolk IP3 0DH England	

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

#### 1.1. Product identifier

Product name	Bauder Thermofol Contact Adhesive (red)
Product number	GB12103010
UFI	UFI: YH8C-C0J4-100S-AFHN

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

Identified uses	Adhesive.
Uses advised against	No specific uses advised against are identified.

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

Supplier	Bauder Ltd 70 Landseer Road Ipswich Suffolk IP3 0DH Tel: +44 (0) 1473 257671
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#### 1.4. Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only).  
For medical advice, members of the public should contact NHS 111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (SI 2019 No. 720)

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 -
H336Environmental hazards	Not Classified

Physicochemical	The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.
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## 2.2. Label elements

### Hazard pictograms



Signal word



Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapour/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/ container in accordance with national regulations.

### Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

### Contains

butanone, Ethyl acetate

### Supplementary precautionary statements

P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P264 Wash contaminated skin thoroughly after handling.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTRE/doctor if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

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

**3.2. Mixtures**

<b>butanone</b>	<b>30-60%</b>
CAS number: 78-93-3	EC number: 201-159-0
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	
<b>Ethyl acetate</b>	<b>10-30%</b>
CAS number: 141-78-6	EC number: 205-500-4
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

<b>VINYL CHLORIDE /VINYL ACETATE / MALEIC ACID TERPOLYMER</b>		<b>5-10%</b>
CAS number: 9005-09-8		
<b>Classification</b> Eye Irrit. 2 - H319 STOT SE 3 - H335		
<b>VINYL ACETATE</b>		<b>&lt;1%</b>
CAS number: 108-05-4	EC number: 203-545-4	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Carc. 2 - H351 STOT SE 3 - H335		
<b>2-METHOXY-1-METHYLETHYL ACETATE</b>		<b>&lt;1%</b>
CAS number: 108-65-6	EC number: 203-603-9	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336		
<b>BUTYL ACETATE -norm</b>		<b>&lt;1%</b>
CAS number: 123-86-4	EC number: 204-658-1	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336		
<b>VINYL CHLORIDE</b>		<b>&lt;1%</b>
CAS number: 75-01-4	EC number: 200-831-0	
<b>Classification</b> Flam. Gas 1A - H220 Press. Gas Carc. 1A - H350		

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wideapart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** May cause temporary eye irritation.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards** Heating may generate flammable vapours. The product is highly flammable.

**Hazardous combustion products** Does not decompose when used and stored as recommended.

**5.3. Advice for firefighters**

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

**Special protective equipment for firefighters** Wear chemical protective suit.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

**6.4. Reference to other sections**

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **butanone**

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m<sup>3</sup>

Sk, BMGV

##### **Ethyl acetate**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

##### **VINYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 5 ppm 17.6 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 ppm 35.2 mg/m<sup>3</sup>

##### **2-METHOXY-1-METHYLETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 274 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 548 mg/m<sup>3</sup>(Sk)

##### **BUTYL ACETATE -norm**

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m<sup>3</sup>

##### **VINYL CHLORIDE**

Long-term exposure limit (8-hour TWA): WEL 3

ppm Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

BMGV = Biological monitoring guidance value.

**Ingredient comments** WEL = Workplace Exposure Limits

**butanone (CAS: 78-93-3)**

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
<b>Biological limit values</b>	Short Term Value: 300ppm Long Term Value: 200ppm
<b>DNEL</b>	Consumer - Oral; Long term systemic effects: 31 mg/kg bw/day Consumer - Dermal; Long term systemic effects: 412 mg/kg bw/day Workers - Dermal; Long term systemic effects: 1161 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 106 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 600 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 55.8 mg/l - Sediment (Freshwater); 284.7 mg/kg - Intermittent release; 55.8 mg/l - Sediment (Marinewater); 284.7 - marine water; 55.8 mg/l - STP; 709 mg/l - Soil; 22.5 mg/kg

**Ethyl acetate (CAS: 141-78-6)**

<b>DNEL</b>	Workers - Inhalation; Short term systemic effects: 1468 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 1468 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 734 mg/m <sup>3</sup> Consumer - Inhalation; Short term local effects: 374 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 734 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 734 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 367 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day Consumer - Inhalation; Long term local effects: 367 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.26 mg/l - marine water; 0.026 mg/l - Intermittent release; 1.65 mg/l - Sediment (Freshwater); 1.25 mg/kg - Sediment (Marinewater); 0.125 mg/kg - Soil; 0.24 mg/kg - STP; 650 mg/l

**2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)**

<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 153.5 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 275 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 54.8 mg/kg bw/day General population - Inhalation; Long term systemic effects: 33 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 1.67 mg/kg bw/day
<b>PNEC</b>	- Fresh water; 0.635 mg/l - marine water; 0.0635 mg/l - Intermittent release; 6.35 mg/l - STP; 100 mg/l - Sediment; 3.29 mg/kg dry weight - Sediment (Marinewater); 0.329 mg/kg dry weight - Soil; 0.29 mg/kg dry weight

**8.2. Exposure controls**

**Protective equipment**



**Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

**Eye/face protection**

The following protection should be worn: Chemical splash goggles.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

**Other skin and body protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

**Hygiene measures**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands after handling. Eating, smoking and water fountains prohibited in immediate work area.

**Respiratory protection**

In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: ABEK2-P3 Particulate filter, type P3.

**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**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Red.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	77°C Estimated value.
<b>Flash point</b>	-7°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	: 1.8-11.5%



<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	~ 0.9 @ 20°C
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	460°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	1200 cP @ 20°C
<b>Explosive properties</b>	Not available.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not available.
<b>Comments</b>	Information given is applicable to the product assuplied.

#### **9.2. Other information**

<b>Other information</b>	No information required.
<b>Refractive index</b>	Not available.
<b>Particle size</b>	Not available.
<b>Molecular weight</b>	Not available.
<b>Volatility</b>	Not available.
<b>Saturation concentration</b>	Not available.
<b>Critical temperature</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 648 g/l.

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

#### **10.1. Reactivity**

**Reactivity** There are no known reactivity hazards associated with this product.

#### **10.2. Chemical stability**

**Stability** No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

#### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** Not applicable. Not relevant.

#### **10.4. Conditions to avoid**

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

#### **10.5. Incompatible materials**

**Materials to avoid** Strong oxidising agents. Strong acids. Strong alkalis.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicological information on ingredients.**

**butanone**

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 20.0

ATE inhalation (vapours mg/l) 20.0

**Ethyl acetate**

**Acute toxicity - oral**

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,620.0

Species Rat

ATE oral (mg/kg) 5,620.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 20,000.0

Species Rabbit

ATE dermal (mg/kg) 20,000.0

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 30.0

Species Rat

ATE inhalation (vapours mg/l) 30.0

**Inhalation** Drowsiness.

**Ingestion** Harmful if swallowed.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**VINYL ACETATE**

**Acute toxicity - inhalation**

Acute toxicity inhalation  
(LC<sub>50</sub> gases ppmV) 4,490.0

Species Rat

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 4,490.0

Species Rat

ATE inhalation (vapours  
mg/l) 4,490.0

**Carcinogenicity**

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

**2-METHOXY-1-METHYLETHYL ACETATE**

**Acute toxicity - oral**

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 8,532.0

Species Rat

ATE oral (mg/kg) 8,532.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

**Acute toxicity - inhalation**

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 35.7

Species Rat

Acute toxicity inhalation  
(LC<sub>50</sub> dust/mist mg/l) 23.8

Species Rat

ATE inhalation (vapours  
mg/l) 35.7

ATE inhalation  
(dusts/mists mg/l) 23.8

**SECTION 12: Ecological information**

**12.1. Toxicity**

**12.2. Persistence and degradability**

**12.3. Bioaccumulative potential**

Partition coefficient Not available.

**12.4. Mobility in soil**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**12.5. Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment      This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Other adverse effects      None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

General information      Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information**

**14.1. UN number**

UN No. (ADR/RID)      1133  
 UN No. (IMDG)      1133  
 UN No. (ICAO)      1133  
 UN No. (ADN)      1133

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)      ADHESIVES  
 Proper shipping name (IMDG)      ADHESIVES  
 Proper shipping name (ICAO)      ADHESIVES  
 Proper shipping name (ADN)      ADHESIVES

**14.3. Transport hazard class(es)**

ADR/RID class      3  
 ADR/RID classification code      F1  
 ADR/RID label      3  
 IMDG class      3  
 ICAO class/division      3  
 ADN class      3

Transport labels



**14.4. Packing group**

ADR/RID packing group      II  
 IMDG packing group      II  
 ICAO packing group      II

ADN packing group II

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutantNo.

**14.6. Special precautions for user**

EmS F-E, S-D

ADR transport category 2

Hazard Identification Number 33  
(ADR/RID)

Tunnel restriction code (D/E)

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

**SECTION 15: Regulatory information**

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Issued by** Compliance

**Revision date** 25.05.2022

**Revision** 2

**Supersedes date** 03.06.2015

**SDS number** 21137

**Hazard statements in full** H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H350 May cause cancer.  
H351 Suspected of causing cancer.

**Store Between** Store Between 5°C-25°C

Bauder reserves the right to amend information and product specifications without prior notice. All reasonable care has been taken to ensure that all data is current at the time of print, however because Bauder pursues a policy of constant development we recommend ensuring that your copy of this information is current by contacting our Technical Department at [technical@bauder.co.uk](mailto:technical@bauder.co.uk)

Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications, installation techniques and any applicable laws and regulations.