



## Material Safety Data Sheet

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### 1. Product & Company Identification

<b>Product:</b>	Hot melt glue stick
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	12.07.2017

#### 1.1 Product identifier:

Identification on the label/Trade name: Hot melt glue stick

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

#### 1.2 Relevant identified uses of the substance and uses advised against:

##### 1.2.1 Identified uses:

Bond

##### 1.2.2 Uses advised against:

Not available.

### 2. Hazards Identification

#### 2.1 Classification of the substance/mixture:

##### 2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

Hazard classes/Hazard categories: N/A

Hazard codes N/A

For full text of H-phrases: see section 2.2.

##### 2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

##### 2.3 Other hazards:

Not available.



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### 3. Composition/information on ingredients

**Substance/Mixture:** Mixture

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
EVA	-	24937-78-8	-	50~70%	Not Classified
Petroleum resins	-	64742-16-1	265-116-8	5~42%	Not Classified
Abietic resin	-	8050-26-8	232-479-9	0~30%	Not Classified
Paraffin wax	-	8002-74-2	232-315-6	<5%	Not Classified

### 4. First aid measures

#### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

##### 4.1.1 In case of inhalation:

Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

##### 4.1.2 In case of skin contact:

Washing of exposed skin after use is recommended to reduce general chemical contact.

##### 4.1.3 In case of eyes contact:

Rinse eyes with water. Remove any contact lenses, and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops or persists.

##### 4.1.4 In case of ingestion:

Never give anything by mouth to an unconscious person. Wash out mouth with water. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical aid.

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

The product is not classified as harmful to human health effect.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

### 5. Fire-Fighting measures

#### 5.1 Extinguishing media:

Suitable extinguishing media: Use media suitable for the material that is burning.

Unsuitable extinguishing media: Not available.

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

In case of fire, the following can be released: Carbon oxides.

#### 5.3 Special fire fighting methods and special protective actions 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.



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### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

##### **6.1.1 For non-emergency personnel:**

Provide adequate ventilation. Avoid inhalation of dust. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

##### **6.1.2 For emergency responders:**

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

#### **6.2 Environmental Precautions:**

Avoid disposing into drainage/sewer system or directly into the aquatic environment.

#### **6.3 Methods for Containment and Cleaning up:**

Take up mechanically.

#### **6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

#### **6.5 Additional information:**

Not applicable.

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

##### **7.1.1 Protective measures:**

Good hygienic practices should be observed. Avoid contact with skin and eyes.

Avoid breathing dust. If exposed to high dust concentration, leave area immediately.

Work clothes should be washed separately at the end of each work day. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace.

##### **7.1.2 Advice on general occupational hygiene:**

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store in a cool, dry, well-ventilated area. Material should be stored in a clean, dry environment in original packaging and not exposed to ignition sources.

#### **7.3 Specific end use(s):**

Not applicable.



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### **8. Exposure Controls/Personal Protection**

#### **8.1 Control parameters:**

##### **8.1.1 Occupational exposure limits:**

Paraffin wax (CAS# 8002-74-2):

Occupational Exposure Limit Value (8-hour reference period): 2 mg/m<sup>3</sup>

Occupational Exposure Limit Value (15-minute reference period): 6 mg/m<sup>3</sup> (Ireland)

##### **8.1.2 Additional exposure limits under the conditions of use:**

Not available.

##### **8.1.3 DNEL/DMEL and PNEC-Values:**

Not available.

#### **8.2 Exposure controls:**

##### **8.2.1 Appropriate engineering controls:**

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

##### **8.2.2 Individual protection measures, such as personal protective equipment:**

Eye/face protection: Wear safety glasses with side shields or vented safety goggles.

Hand protection: Appropriate protective gloves should be worn as necessary.

Body protection: Wear easily washable clothing. Wash clothing after each shift.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear suitable protective clothing to prevent heat.

##### **8.2.3 Environmental exposure controls:**

Avoid discharge into the environment.

According to local regulations, Federal and official regulations



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### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	White
Odour:	Not available
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	160-180°C
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Non-flammable
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	< 0.75 mBar (CAS# 8050-26-8)
Vapour density:	Not available
Density:	1063 kg/m <sup>3</sup> at 20 °C (CAS# 8050-26-8)
Bulk density (kg/m <sup>3</sup> ):	Not available
Water solubility (g/l):	Insoluble
n-Octanol/Water (log Po/w):	log Pow = 3.62 at 20 °C (CAS# 8050-26-8)
Auto-ignition temperature:	306 °C (CAS# 8050-26-8)
Decomposition temperature:	ca. 275 °C (CAS# 8050-26-8)
Viscosity:	5300cps
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available

#### 9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	72.2 mN/m at 20°C (CAS# 8050-26-8)
Dissociation constant in water( pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available



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### 10. Stability and reactivity

#### 10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

#### 10.2 Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

#### 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

#### 10.4 Conditions to avoid:

Incompatible materials.

Excess heat.

#### 10.5 Incompatible materials:

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products:

Carbon oxides

### 11. Toxicological information

#### 11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

#### 11.2 Information on toxicological effects:

Acute toxicity:	Abietic resin (CAS# 8050-26-8)
LD50(Oral, Rat):	> 2000 mg/kg bw
LD50(Dermal, Rat):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified



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### 12. Ecological information

**Toxicity:**

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50: N/A	96h	Fish	OECD 203	N/A	N/A
EC50: N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50: N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:**

Abietic resin (CAS# 8050-26-8): The reference control exhibited 95.6% degradation over 28 days.

**Bioaccumulative potential:**

Abietic resin (CAS# 8050-26-8): log Koc: > 5.37

**Mobility in soil:**

The product is practically insoluble in water.

**Results of PBT&vPvB assessment:**

Not available.

**Other adverse effects:**

Not available.

### 13. Disposal considerations

**13.1 Waste treatment methods:**

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**13.2 Product / Packaging disposal:**

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.



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### 14. Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>UN-Number</b>	Not regulated	Not regulated	Not regulated
<b>UN Proper shipping name</b>	Not regulated	Not regulated	Not regulated
<b>Transport hazard Class</b>	Not regulated	Not regulated	Not regulated
<b>Packaging group</b>	Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>	No	No	No
<b>Special precautions for user</b>	See section 2.2	See section 2.2	See section 2.2
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated	Not regulated	Not regulated

### 15. Regulation information

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

##### Relevant information regarding authorization:

Not applicable.

##### Relevant information regarding restriction:

Not applicable.

##### Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

##### Other National regulations:

Not applicable

##### Chemical Safety Assessment has been carried out?

NO





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### **16. Other information**

#### **16.1 Indication of changes:**

Version 1.0 Amended by EU No 453/2010

#### **16.2 Training instructions:**

Not applicable.

#### **16.3 Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### **16.4 Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with anyother product or process, is the responsibility of the user.