



Material Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product:	Hot melt glue stick, transparent
Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Date:	29.06.2023

1.1. Product identifier

Product form: Mixture

Product name: HOT MELT GLUE STICK

UFI: N/A

Product code: TTC, TT7-8, TT7-10

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Consumer use Adhesives

1.2.2. Uses advised against

Restrictions on use: Not available

2. Hazards Identification

2.1 Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %



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3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylenevinylacetate copolymer	CAS-No.: 24937-78-8	50 – 70	Not classified
Hydrocarbon resin	CAS-No.: 68132-00-3	5 – 42	Not classified
Pentaerythryl rosinates	CAS-No.: 8050-26-8 EC-No.: 232-479-9	0 – 30	Not classified
Paraffin wax	CAS-No.: 8002-74-2 EC-No.: 232-315-6	< 5	Not classified

4. First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact:

Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse eyes with water as a precaution. Get medical attention if symptoms occur.

First-aid measures after ingestion:

Rinse mouth. If you feel unwell, seek medical advice.

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

No additional information available

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

Treat symptomatically.



5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray. Dry powder. Alcohol-resistant foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire:

Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures:

Ventilate spillage area. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Mechanically recover the product.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.



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7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in a well-ventilated place. Keep cool. Keep container tightly closed and dry. Keep out of reach of children. Store locked up.

7.3. Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Paraffin wax (8002-74-2)

Belgium - Occupational Exposure Limits

Local name	Paraffine (cire de) (fumées) # Paraffinewas (rook)
OEL TWA	2 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

Croatia - Occupational Exposure Limits

Local name	Parafinski vosak, dim
GVI (OEL TWA) [1]	2 mg/m ³
KGVI (OEL STEL)	6 mg/m ³
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)

Denmark - Occupational Exposure Limits

Local name	Paraffinrøg
OEL TWA [1]	2 mg/m ³
Regulatory reference	BEK nr 202 af 21/02/2023

Estonia - Occupational Exposure Limits

Local name	Parafiin
OEL TWA	2 mg/m ³ aurud
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)



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Finland - Occupational Exposure Limits

Local name	Parafiinihuurut
HTP (OEL TWA) [1]	1 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)

France - Occupational Exposure Limits

Local name	Paraffine (cire de), fumée
VME (OEL TWA)	2 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Greece - Occupational Exposure Limits

Local name	Παραφινικός κηρός (καπνός)
OEL TWA	2 mg/m ³
OEL STEL	6 mg/m ³
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους

Ireland - Occupational Exposure Limits

Local name	Paraffin wax, fume
OEL TWA [1]	2 mg/m ³
OEL STEL	6 mg/m ³
Regulatory reference	Chemical Agents Code of Practice 2021

Poland - Occupational Exposure Limits

Local name	Parafina stała
NDS (OEL TWA)	2 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286

Portugal - Occupational Exposure Limits

Local name	Parafina (cera), fumos
OEL TWA	2 mg/m ³
Regulatory reference	Norma Portuguesa NP 1796:2014

Romania - Occupational Exposure Limits

Local name	Parafină
OEL TWA	2 mg/m ³ (Fumuri)
OEL STEL	6 mg/m ³ (Fumuri)
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)



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Slovakia - Occupational Exposure Limits

Local name	Parafín, dymy
NPHV (OEL TWA) [1]	2 mg/m ³
NPHV (OEL STEL)	6 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)

Spain - Occupational Exposure Limits

Local name	Cera de parafina
VLA-ED (OEL TWA) [1]	2 mg/m ³ humos
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT

United Kingdom - Occupational Exposure Limits

Local name	Paraffin wax
WEL TWA (OEL TWA) [1]	2 mg/m ³ fume
WEL STEL (OEL STEL)	6 mg/m ³ fume
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Iceland - Occupational Exposure Limits

Local name	Parafínreykur
OEL TWA	2 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)

Norway - Occupational Exposure Limits

Local name	Parafin (røyk)
Grenseverdi (OEL TWA) [1]	2 mg/m ³
Regulatory reference	FOR-2021-06-28-2248

Switzerland - Occupational Exposure Limits

Local name	Paraffine (fumée) / Paraffinrauch
MAK (OEL TWA) [1]	2 mg/m ³ (a) / (a)
Critical toxicity	Nausée, VRS / Nausea, OAW
Regulatory reference	www.suva.ch, 01.01.2023

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available



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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Glitter. coloured. Transparent.
Appearance:	gel.
Odour:	odourless.
Odour threshold:	Not available
Melting point:	Not available
Freezing point:	Not applicable
Boiling point:	Not available
Flammability:	Non flammable.
Explosive limits:	Not applicable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not available
pH:	Not available
pH solution:	Not available
Viscosity, kinematic:	Not applicable
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	Not available
Vapour pressure at 50°C:	Not available
Density:	Not available
Relative density:	Not available
Relative vapour density at 20°C:	Not applicable
Particle size:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available



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10. Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials. Avoid temperature above.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

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

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Pentaerythrityl rosinate (8050-26-8)

LD50 oral rat: > 2000 mg/kg bodyweight

LD50 dermal rat > 2000 mg/kg bodyweight

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties:

The substance/mixture has no endocrine disrupting properties.

11.2.2. Other information

No additional information available



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12. Ecological information

12.1. Toxicity

Ecology - general:

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute):

Not classified

Hazardous to the aquatic environment, long-term (chronic):

Not classified

Not rapidly degradable

Pentaerythrityl rosinate (8050-26-8)

LL50 96h - Fish [1] > 100 mg/l

EL50 48h - Crustacea [1] > 100 mg/l

EL50 72h - Algae [1] > 100 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties:

The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

13. Disposal considerations

13.1. Waste treatment methods

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.



14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

ADR Not regulated

IMDG Not regulated

IATA Not regulated

ADN Not regulated

RID Not regulated

14.2. UN proper shipping name

ADR Not regulated

IMDG Not regulated

IATA Not regulated

ADN Not regulated

RID Not regulated

14.3. Transport hazard class(es)

ADR Not regulated

IMDG Not regulated

IATA Not regulated

ADN Not regulated

RID Not regulated

14.4. Packing group

ADR Not regulated

IMDG Not regulated

IATA Not regulated

ADN Not regulated

RID Not regulated

14.5. Environmental hazards

ADR Not regulated

IMDG Not regulated

IATA Not regulated

ADN Not regulated

RID Not regulated

No supplementary information available



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14.6. Special precautions for user

Overland transport: Not regulated

Transport by sea: Not regulated

Air transport: Not regulated

Inland waterway transport: Not regulated

Rail transport: Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions:

Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).



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Water hazard class (WGK):

WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510):

LGK 13 - Non-combustible solids.

Joint storage table:

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for:

LGK 1, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for:

LGK 4.1A, LGK 5.1C.

Joint storage permitted for:

LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV):

Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category: A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen: Resin acids and Rosin acids, esters with pentaerythritol, Paraffin waxes and Hydrocarbon waxes [A complex combination of hydrocarbons obtained from petroleum fractions by solvent crystallization (solvent deoiling) or by the sweating process. It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C20.] are listed

SZW-lijst van mutagene stoffen: Resin acids and Rosin acids, esters with pentaerythritol, Paraffin waxes and Hydrocarbon waxes [A complex combination of hydrocarbons obtained from petroleum fractions by solvent crystallization (solvent deoiling) or by the sweating process. It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C20.] are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding: None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid: None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling: None of the components are listed

Switzerland

Storage class (LK): NG - Non-hazardous

15.2. Chemical safety assessment

No chemical safety assessment has been carried out



16. Other information

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate

BCF: Bioconcentration factor

BLV: Biological limit value

BOD: Biochemical oxygen demand (BOD)

COD: Chemical oxygen demand (COD)

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC-No.: European Community number

EC50: Median effective concentration

EN: European Standard

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

LOAEL: Lowest Observed Adverse Effect Level

NOAEC: No-Observed Adverse Effect Concentration

NOAEL: No-Observed Adverse Effect Level

NOEC: No-Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative Toxic

PNEC: Predicted No-Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STP: Sewage treatment plant

ThOD: Theoretical oxygen demand (ThOD)

TLM: Median Tolerance Limit

VOC: Volatile Organic Compounds

CAS-No.: Chemical Abstract Service number

N.O.S.: Not Otherwise Specified

vPvB: Very Persistent and Very Bioaccumulative



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ED: Endocrine disrupting properties

The classification complies with: ATP 12

SDS-EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.