

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 06.10.2015

Version number 57

Revision: 06.10.2015

* **SECTION 1: Identification of the substance/mixture and of the company/legal entity**

- **1.1 Product identifier**
- **Trade name** tesa 57041 Reaction Glue Gel
- **Article number:** also valid for:
tesa 57041, 57100
- **CAS Number:** 7085-85-0
- **EC number:** 230-391-5
- **Index number:** 607-236-00-9
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **Manufacturer/Supplier:** tesa SE Tel.: +49-40-88899-101
Hugo-Kirchberg-Strasse 1
D-22848 Norderstedt
Germany
- **Informing department:** tesa SE, quality management/environment/occupational safety, Dr. Dirk Lamm
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- **1.4 Emergency telephone number:** tesa SE, Hugo-Kirchberg-strasse 1, D-22848 Norderstedt
Security Center Phone +49-40-88899-0
or +49-40-88899-9111

* **SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**

The substance is classified and labelled according to the CLP regulation.



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:** ethyl 2-cyanoacrylate
- **Hazard statements** H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements** P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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P103	Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:** Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not classified
- **vPvB:** Not classified

* SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Designation:** 7085-85-0 ethyl 2-cyanoacrylate
- **Identification number(s):**
- **EC number:** 230-391-5
- **Index number:** 607-236-00-9
- **SVHC** Free of any SVHC substances or < 0.1 %

* SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** In case of bonding tissues or eyes calm affected person. Avoid any forced separation for example with a cutting knife. Don't rub bonded eyes. Even without treatment cyanoacrylate based adhesive can be peeled off from skin, eyes or mouth due to the influence of wetness, humidity of skin, sweat, tears and spittle.
- **After inhalation** At room temperature, the preparation is low volatile. The vapor pressure is < 1mbar. At normal use an exposition by inhalation is not likely. At room temperature, the preparation is low volatile. The vapor pressure is < 1 mbar. At normal use an exposition by inhalation is not likely.
- **After skin contact** In case of skin contact, soak the bonded area in warm, soapy water for several minutes. Afterwards treat the skin with fatty or oily protecting cream. Cured adhesive can be removed from the skin within about one day. Bonded skin surfaces can be separated relatively easily by soaking in warm, soapy water for several minutes. Then gently try peeling the bond. Alternatively, a dull instrument such as a pencil or a dull and pointless table knife can be forced carefully through the bond.
- **After eye contact** Immediately flush the eyes with water and seek for medical aid. Allow the eye to remain closed and the bond to separate naturally (supported by tear production), what generally will occurs within a few hours.
- **After swallowing** Unlikely, because rapid hardening (polymerisation) of the adhesive will already take place in contact with spittle in the mouth. In case of persistent symptoms consult physician.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Information for occupational physician.** *In case of bonded skin, do not separate surgically.*
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

*** SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** *CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*
- **For safety reasons unsuitable extinguishing agents** *Water with a full water jet.*
- **5.2 Special hazards arising from the substance or mixture** *Can be released in case of fire:
Hydrogen cyanide (HCN)
Nitrogen oxide (NO_x)
Carbon monoxide (CO)*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Put on breathing apparatus.
Do not inhale explosion gases or combustion gases.*
- **Additional information** *Collect contaminated fire fighting water separately. It must not enter drains.*

*** SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:** *Inform authorities if gas escapes.*
- **6.3 Methods and material for containment and cleaning up:** *Apply absorbing material (sand, diatomite, acid binders, universal binders, sawdust).*
- **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.*

*** SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** *Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Not cured rests of the adhesive can be removed with acetone*
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** *Store in cool location.
Storage temperature: 5 bis 20 °C*
- **Information about storage in one common storage facility:** *Do not store together with alkalis (caustic solutions).
Store away from oxidising agents.*

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- **Further information about storage conditions:** *Protect from humidity and keep away from water.*
- **7.3 Specific end use(s)** *No further relevant information available.*

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

- **Additional information about design of technical systems:** *No further data; see item 7.*

· **8.1 Control parameters**

· Components with critical values that require monitoring at the workplace:	
7085-85-0 ethyl 2-cyanoacrylate	
WEL	Short-term value: 1.5 mg/m ³ , 0.3 ppm

- **Additional information:** *The lists that were valid during the compilation were used as basis.*

· **8.2 Exposure controls**

- **Personal protective equipment**
- **General protective and hygienic measures**

*The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Wash hands before breaks and at the end of the work.
Avoid contact with the eyes and skin.*

· **Breathing equipment:**



In case of short term exposure use respiratory protection. In case of intensive or longer exposure use respiratory protection equipment independent from ambient air.

Use respiratory protection in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves.

· **Eye protection:**



Safety glasses

· **Body protection:**

Void

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

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	<i>Pasty</i>
Colour:	<i>Clear</i>
Smell:	<i>Not defined</i>
· pH-value:	<i>Not applicable.</i>
· Change in condition	
Melting point/Melting range:	<i>Not determined</i>
Boiling point/Boiling range:	<i>60/3.99 mbar °C</i>
· Flash point:	<i>Not applicable</i>

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· Ignition temperature:	
Decomposition temperature:	265 °C
· Danger of explosion:	Void
· Steam pressure:	Not applicable.
· Density	Not determined
· Solubility in / Miscibility with Water:	Unsoluble Not miscible or difficult to mix Curing in contact with water. Solubility in acetone: 900 g/l
· Viscosity:	
dynamic:	Not applicable. thixotropic
kinematic:	Not applicable.
Organic solvents:	0.0 %
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** alkalies, water
- **10.6 Hazardous decomposition products:** Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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* **SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:** Free of heavy metals (Pb, Cd, Hg, Cr6+)
- **General notes:** Generally not hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

* **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household garbage.
This product can be polymerized with alkalies or water and can be disposed as a untoxic solid substance.

· European waste catalogue (recommendation)	
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

- **Additional information about the European waste catalogue:** The assignment of a waste key number according to EC Decision 2000/532/EC in connection with EU Directive 75/442/EC has to follow specific industry requirements. The above mentioned classification is only one possible proposal.
- **Uncleaned packagings:**
- **Recommendation:** Disposal according to official regulations.
Emptied packagings can be disposed in regard to local / national recycling regulations such as Green Dot Program.

* **SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.

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· 14.6 Special precautions for user	<i>Not applicable.</i>
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	<i>Not dangerous according to the above mentioned specifications.</i>
· UN "Model Regulation":	-

*** SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *Substance is not listed.*
- **National regulations**
- **Additional classification according to Decree on Hazardous Materials, Annex III:** *'Cyanoacrylate! Danger! Bonds skin and eyes in seconds Keep out of the reach of children'. Warning! Cyanoacrylate bonds skin within seconds. Keep out of the reach of children.*
- **Information about limitation of use:** *Void*
- **Decree to be applied in case of technical fault:** *Void*
- **Water hazard class:** *Generally not hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This data is based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** *tesa SE, Quality Management/Environment/Safety*
- **Contact:** *tesa SE: Dr. D. Lamm, Phone: +49-40-88899-2977, Email: dirk.lamm@tesa.com
tesa SE: Dr. A. Koeth, Phone: +49-40-88899-3938, Email: anja.koeth@tesa.com*
- **Abbreviations and acronyms:** *RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*
- *** Data compared to the previous version altered.**