

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

Printing date 15.08.2013

Version number 156

Revision: 03.06.2013

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

- **Product identifier**
- **Trade name** tesa 60020 60021 Spray Glue PERMANENT
- **Article number:** tesa 60020 (300ml) + 60021 (500ml)
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:** tesa SE Tel.: +49-40-4909-101
Quickbornstrasse 24
D-20253 Hamburg
Germany
- **Informing department:** tesa SE, Quality Management/Environment/Safety, Mr. Dr. Lamm
Dirk.Lamm@tesa.com, Phone: +49-40-4909-2977
Head of Corporate Occupational Safety (Beiersdorf AG), Mr. Ziebell
Hubertus.Ziebell@Beiersdorf.com, Phone: +49-40-4909-4543
- **Emergency telephone number:** tesa SE, Quickbornstr. 24, D-20253 Hamburg
Security Center Quickbornstr. Phone +49-40-4909-2442
or +49-40-4909-101

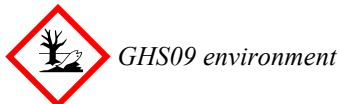
UNITED KINGDOM:
The UK National Poisons Emergency number is 0870 600 6266
London:
Emergency 24 hour telephone: +44 (0)20 7188 0100
Guy's & St Thomas' Poisons Unit
Medical Toxicology Information Services
Mary Sheridan House, Guy's Hospital, Great Maze Pond, London SE1 9RT

*** 2 Hazards identification**

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



Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

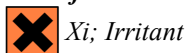


Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



R38: Irritating to skin.

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F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

Information concerning particular

hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.
Has a narcotizing effect.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS02 GHS07 GHS09

Signal word

Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P321 Specific treatment (see on this label).

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

61.2 % by mass of the contents are flammable

Classification system

NFPA-Ratings for USA



Health = 1
Flammability = 4
Reactivity = 3

Other hazards

The preparation contains no elualable organic halogene compounds, which increases the AOX values

Results of PBT and vPvB assessment

PBT:

Not classified

vPvB:

Not classified

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Dispersion of natural rubber and resins in the following substances:· **Dangerous components:**

CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  Xn R65  F R11  N R51/53 Flam. Liq. 2, H225 Carc. 1B, H350; Asp. Tox. 1, H304	< 50.0%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane  Xn R65  Xi R38  F R11  N R50/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	< 25.0%
CAS: 74-98-6 EINECS: 200-827-9	propane liquefied  F+ R12 Flam. Gas 1, H220 Press. Gas, H280	< 25.0%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  F+ R12 Flam. Gas 1, H220 Press. Gas, H280	< 25.0%
CAS: 67-64-1 EINECS: 200-662-2	acetone  Xi R36  F R11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	< 10.0%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

not applicable

· **Additional information**

For the wording of the listed risk phrases refer to section 16.

* 4 First aid measures

· **Description of first aid measures**· **After inhalation**

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eyes for several minutes under running water.

· **After swallowing**

In case of persistent symptoms consult physician.

· **Information for occupational physician.**· **Most important symptoms and effects, both acute and delayed**

Dazedness

· **Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

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5 Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents**
 - **For safety reasons unsuitable extinguishing agents**
- CO₂, sand, extinguishing powder. Do not use water.
- 


Water.
- Water with a full water jet.
- **Special hazards arising from the substance or mixture**
- Carbon monoxide (CO)
Nitrogen oxide (NO_x)
Carbon monoxide (CO)
- **Advice for firefighters**
 - **Protective equipment:**
 - **Additional information**
- No special measures required.
Cool endangered containers with water spray jet.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - **Environmental precautions:**
- Wear protective equipment. Keep unprotected persons away.
- 

Prevent product from reaching sewage system or water bodies.
- Inform responsible authorities in case of spilling into water or sewage system.
- **Methods and material for containment and cleaning up:**
 - **Reference to other sections**
- Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
- Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
- **Information about protection against explosions and fires:**
- Do not spray on flames or red-hot objects.
- 

Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
- Store in cool location.
Observe official regulations on storing packagings with pressurized containers.

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- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep container tightly sealed.
Do not seal container gastight.
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.*
- **Specific end use(s)** *No further relevant information available.*

* 8 Exposure controls/personal protection

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

Components with critical values that require monitoring at the workplace:	
110-82-7 cyclohexane	
WEL	Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm
106-97-8 butane, pure	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

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

- **Exposure controls**

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

*Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Wash hands before breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
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:**



Solvent resistant gloves

- **Material of gloves**
- **Eye protection:**
- **Body protection:**

Nitrile rubber, NBR

Not required.

Protective work clothing.

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** *Aerosol*
 - Colour:** *Light yellow*

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· Smell:	Solvent-like
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	-44 °C (Siedebeginn bzgl. Propan)
· Flash point:	< -19 °C
· Ignition temperature:	245 °C
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
· Critical values for explosion:	
Lower:	1.0 Vol %
Upper:	10.9 Vol %
· Steam pressure at 20 °C:	8300 hPa
· Density	Not determined
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	81.3 %
Solids content:	18.7 %
· Other information	The specified boiling point of -44 °C is the boiling point of propane and it is nearly equivalent to the initial boiling point of the mixture. For adhesive applications, this temperature range is not relevant.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	2000 mg/kg (Ratte)
Dermal	LD50	4000 mg/kg (Rabbit)
Inhalative	LC50/ 4 h	54 mg/l (Ratte)
110-82-7 cyclohexane		
Oral	LD50	12705 mg/kg (rat)

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- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:** The product shows the following dangerous properties according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **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:** Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

*13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue (recommendation)**

16 05 04*	gases in pressure containers (including halons) containing dangerous substances
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- **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.
- **Recommended cleaning agent:** ethyl acetate

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***14 Transport information**

<ul style="list-style-type: none"> · UN-Number · ADR, IMDG, IATA 	<p>UNI950</p>
<ul style="list-style-type: none"> · UN proper shipping name · ADR · IMDG · IATA 	<p>1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · ADR 	<div style="display: flex; align-items: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	<p>2 5F Gases. 2.1</p>
<ul style="list-style-type: none"> · IMDG 	<div style="display: flex; align-items: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	<p>2.1 2.1</p>
<ul style="list-style-type: none"> · IATA 	<div style="display: flex; align-items: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	<p>2.1 2.1</p>
<ul style="list-style-type: none"> · Packing group · ADR, IMDG, IATA 	<p>Void</p>
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (ADR): 	<p>Product contains environmentally hazardous substances: cyclohexane, 64742-49-0 Naphtha (petroleum), hydrotreated light Yes Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> · Special precautions for user · Page: · EMS Number: 	<p>Warning: Gases. - F-D,S-U</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: 	<p>Limited quantity regulations concerning ADR and IMDG for packages up to 30 kg (gross weight). ID 8000 Consumer commodity for airtransport of finished goods in packages up to 30 kg possible (gross weight). DOT: ORM-D consumer commodity for road transport inside US</p>
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) 	<p>1L</p>

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· Transport category	2
· Tunnel restriction code	D
· UN "Model Regulation":	UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

*15 Regulatory information

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

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
III	47.9
NK	35.3

· **Water hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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.

· **Relevant phrases**

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 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.
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

R11 Highly flammable.
 R12 Extremely flammable.
 R36 Irritating to eyes.
 R38 Irritating to skin.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:**

tesa SE, Quality management/environment/safety

· **Contact:**

tesa SE : Dr. Lamm Phone: +49-40-4909-2977

Corporate Occupational Safety (Beiersdorf AG): H. Ziebell Phone: +49-40-4909-4543

· **Abbreviations and acronyms:**

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 Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

· * **Data compared to the previous
version altered.**

GB