

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

1 Identification

- **Product identifier**
- **Trade name** **tesa 8684**
- **Application of the substance / the mixture** Adhesive tape
- **Manufacturer/Supplier:** tesa SE Tel.: +49-40-88899-101
Hugo-Kirchberg-Str. 1
D-22848 Norderstedt
Germany
- **Informing department:** tesa SE, Corporate Regulatory Affairs
SDS@tesa.com, Tel.: +49-40-88899-6954
- **Emergency telephone number:** Reception Headquarters
tesa SE, Hugo-Kirchberg-Str. 1, 22848 Norderstedt, Germany
Phone: +49 40 88899 2667 (Mon.-Thurs. 07:00-18:00h, Fr. 07:00-15:00h)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word**

Warning

- **Hazard-determining components of labeling:**

3,4-Epoxy(cyclohexan)methyl-3,4-epoxycyclohexyl carboxylat
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

- **Hazard statements**

May cause an allergic skin reaction.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Avoid release to the environment.

Wear protective gloves.

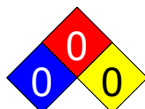
If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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

- **Classification system**

- **NFPA ratings (scale 0-4)**



Health = 0

Fire = 0

Reactivity = 0

- **HMIS ratings (scale 0-4)**



Health = 0

Fire = 0

Reactivity = 0

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 1)

- **Other hazards** The product does not contain any elutable organically bound halogen compounds which may lead to an increase in the AOX value during wastewater analysis.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Carrier: Polyester
Reactive adhesive mass on epoxy resin basis

· Dangerous components:		
	3.4-Epoxy cyclohexan)methyl-3.4-epoxycyclohexyl carboxylat ⚠ Sensitization - Skin 1, H317 Flammable Liquids 4, H227	<10%
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	<10%
17455-13-9	1,4,7,10,13,16-hexaoxacyclooctadecane ⚠ Acute Toxicity - Oral 3, H301	<1%

- **Additional information** The product does not contain benzene
The wording of the listed hazard statements can be found in section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation** Void
- **After skin contact** Wash off with soap and water.

Skin contact with hot adhesive mass (from 45°C):
Remove garments carefully to prevent heat build-up and afterburning. Do not remove items of clothing that have already bonded to the skin. Immediately rinse or shower the burned body regions gently with cold water (15-20°C) (at least 15 minutes). The cold water treatment leads to pain relief and reduced edema formation. This reduces the afterburn effect. Avoid hypothermia due to extensive application of cold water or ice water. Constantly check the vital signs of the burn victim. The first aider should not cover burned skin areas with dressing material or apply burn ointment. Avoid cooling. Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist.
- **After swallowing** Void
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **Special hazards arising from the substance or mixture** In the event of a fire may be released:
Under certain fire conditions, traces of toxic substances cannot be excluded, such as:

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 2)

- **Advice for firefighters**
 - **Protective equipment:**
- Nitrogen oxides (NO_x)
Under certain fire conditions, traces of other toxic substances cannot be excluded.
- Put on breathing apparatus.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - **Environmental precautions:**
 - **Methods and material for containment and cleaning up:**
 - **Reference to other sections**
 - **Protective Action Criteria for Chemicals**
- Keep away from ignition sources
No special measures required.
- Dispose of contaminated material as waste according to section 13.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

· PAC-1:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	90 mg/m ³
· PAC-2:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	990 mg/m ³
· PAC-3:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	5,900 mg/m ³

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
 - **Information about protection against explosions and fires:**
 - **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
 - **Information about storage in one common storage facility:**
 - **Further information about storage conditions:**
 - **Specific end use(s)**
- Heated product / material can lead to irreversible eye damage.
Heated product / material can cause severe burns on skin.
Keep away from heat and direct sunlight.
- No special measures required.
- No special requirements.
- Void
- None.
- No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 4)

US


Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 3)

· Control parameters	
· Components with critical values that require monitoring at the workplace:	
· Additional information:	The lists that were valid during the compilation were used as basis.
· 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 soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
· Breathing equipment:	Not required.
· Protection of hands:	 Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves	Suitability and resistance of a glove depend on the conditions of use, such as frequency and duration of contact, chemical resistance of the glove material, thickness and fit of the gloves. As a general rule, the glove manufacturer should be consulted for the necessary information. Contaminated or damaged gloves should be replaced immediately.
· Penetration time of glove material	The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
· Eye protection:	Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Solid.
Colour:	White
· Smell:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
· Flash point:	Not applicable
· Inflammability (solid, gaseous)	Not determined.
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Critical values for explosion:	
Lower:	Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 4)

Upper:	Not determined.
· Steam pressure:	Not applicable.
· Density	Not determined
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
· Solvent content:	
Solids content:	100.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- 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:

ATE (Acute Toxicity Estimate)

Oral LD50 31,949 mg/kg

- Primary irritant effect:

- on the eye:

- Sensitization:

No irritant effect.

(Means the vapours, formed in the thermo setting process)

Sensitizing effect by inhalation is possible by prolonged exposure.

Sensitization possible by skin contact.

- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684



(Contd. of page 5)

· NTP (National Toxicology Program)
None of the ingredients is listed.
· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

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.
· Additional ecological information:	
· According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:	Free of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) according to RoHS Directive.
· General notes:	Not known to be hazardous to water. 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	  <p>Must not be disposed of together with household garbage. Do not allow product to reach sewage system.</p> <p>Must be specially treated under adherence to official regulations.</p>
· Uncleaned packagings:	Void

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void

(Contd. on page 7)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 6)

· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

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

· Hazardous Air Pollutants
None of the ingredients is listed.

· **Cancerogenity categories**

· TLV (Threshold Limit Value)
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**

Void

· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Void

· **Decree to be applied in case of technical fault:**

Void

· **Other regulations, limitations and prohibitive regulations**

· TSCA
3.4-Epoxy cyclohexan)methyl-3.4-epoxycyclohexyl carboxylat
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

· **SARA Section 313**

-

· **SARA section 355**

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· **Proposition 65 - Cancer**

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2023

Reviewed on 03/10/2023

Trade name tesa 8684

(Contd. of page 7)

16 Other information

These data are 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:

· **Contact:**

· **Date of preparation / last revision**

· **Abbreviations and acronyms:**

tesa SE, Corporate Regulatory Affairs

tesa SE, Corporate Regulatory Affairs, Email: SDS@tesa.com, Tel.: +4940-88899-0

03/10/2023

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1