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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

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

· **1.1 Product identifier**

· **Trade name** **tesa 60153**

· **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**
Coating material
Priming
Intermediate

· **Manufacturer/Supplier:**
tesa SE Tel.: +49-40-4909-101
Quickbornstrasse 24
D-20253 Hamburg
Germany

· **Informing department:**
tesa SE, quality management/environment/occupational safety, Dr. Dirk Lamm
Dirk.Lamm@tesa.com, Tel.: +49-40-4909-2977
tesa SE, quality management/environment/occupational safety, Dr. Anja Koeth
Anja.Koeth@tesa.com, Tel.: +49-40-4909-3938

· **1.4 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

* SECTION 2: Hazards identification

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

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

(Contd. on page 2)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 1)

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xn; Harmful

R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

F; Highly flammable

R11: Highly flammable.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **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.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:** cyclohexane

· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.

· **Additional information:** Contains epoxy constituents. May produce an allergic reaction.
Contains reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700). May produce an allergic reaction.

· **2.3 Other hazards** The preparation contains no elualable organic halogene compounds, which increases the AOX values

· **Results of PBT and vPvB assessment**

· **PBT:** Not classified

(Contd. on page 3)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 2)

· **vPvB:** Not classified

* SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· **Description:** Solvent mixture with additives.
· **Characterisation equipment, container:** None

· **Dangerous components:**

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	< 50.0%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure Xn R20/21 Xi R38 R10 Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	< 25.0%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi R36 F R11 R67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	< 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%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20 F R11 Flam. Liq. 2, H225 Acute Tox. 4, H332	< 10.0%

(Contd. on page 4)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 3)

EINECS: 265-151-9	64742-49-0 Naphtha (petroleum), hydrotreated light Xn R65 Xi R38 F R11 N R51/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H336	< 10.0%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Xi R36 F R11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	< 2.5%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi R36/38 Xi R43 N R51/53 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 1.0%

· **SVHC** Free of any SVHC substances
· **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.

*
SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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 eye for several minutes under running water. If symptoms persist, consult doctor.
· **After swallowing** In case of persistent symptoms consult physician.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **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** CO_2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents**

Water.

Water with a full water jet.

(Contd. on page 5)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 4)

· **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Nitrogen oxide (NOx)
Carbon monoxide (CO)

· **5.3 Advice for firefighters**
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Put on breathing apparatus.

*
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:**

Prevent material from reaching sewage system, holes and cellars.

Inform resposible authorities in case of spilling into water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**
Apply absorbing material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· **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**
Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Handle only outside or in explosion protected rooms.
Fumes can combine with air to form an explosive mixture.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Store in cool location.

· **Information about storage in one common storage facility:**
Not required.

· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Store only outside or in explosion proof rooms.

Storing flammable liquids the Nationonal regulations have to be fulfilled!

· **Storage class**
3 (flammable liquids)

(Contd. on page 6)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 5)

· **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:**	
110-82-7 cyclohexane	
WEL	Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm
1330-20-7 xylene, mixed isomers, pure	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
67-64-1 acetone	
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
67-63-0 propan-2-ol	
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
100-41-4 ethylbenzene	
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
141-78-6 ethyl acetate	
WEL	Short-term value: 400 ppm Long-term value: 200 ppm

· **Ingredients with biological limit values:**	
1330-20-7 xylene, mixed isomers, pure	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **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**

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 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.

· **Protection of hands:**

Protective gloves.

· **Material of gloves** wear protective glove (nitrile)

(Contd. on page 7)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 6)

· **Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing.

*
SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	liquid
Colour:	specific to the product
· **Smell:**	Product specific
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	81 °C
· **Flash point:**	-18 °C
· **Inflammability (solid, gaseous)**	Not applicable.
· **Ignition temperature:**	245 °C
· **Decomposition temperature:**	Not determined.
· **Self-inflammability:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· **Critical values for explosion:**	
Lower:	1.1 Vol %
Upper:	13.0 Vol %
· **Steam pressure at 20 °C:**	247 hPa
· **Density**	Not determined
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Partly miscible
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
dynamic:	Not determined.
kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	80.7 %
Solids content:	19.3 %
· **9.2 Other information**	No further relevant information available.

(Contd. on page 8)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 7)

* 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** No dangerous reactions known
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known

* SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
110-82-7 cyclohexane		
Oral	LD50	12705 mg/kg (rat)
1330-20-7 xylene, mixed isomers, pure		
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/ 4 h	6350 mg/l (rat)
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)

· **Primary irritant effect:**
· **on the skin:** Irritant for skin and mucous membranes.
· **on the eye:** Irritant effect.
· **Sensitisation:** 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:
Harmful
Irritant

* 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.
· **Ecotoxical effects:**
· **Remark:** Very 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+)

(Contd. on page 9)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 8)

· **General notes:** Water hazard class 2 (Self-assessment): hazardous for water.
Prevent product from reaching ground water, water bodies or sewage systems.
Danger to drinking water even if small quantities leak into soil.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

· **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**

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

Must be specially treated under adherence to official regulations.

· **European waste catalogue (recommendation)**
· **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 obove mentioned classification is only one possible proposal.

· **Uncleaned packagings:** Void
· **Recommendation:** Disposal according to official regulations.

* SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1866

· **14.2 UN proper shipping name**
· **ADR** 1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS, (vapour pressure at 50 °C not more than 110 kPa)
· **IMDG** RESIN SOLUTION (CYCLOHEXANE, 64742-49-0 Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
· **IATA** RESIN SOLUTION

· **14.3 Transport hazard class(es)**
· **ADR**

· **Class** 3 (F1) Flammable liquids.
· **Label** 3

· **IMDG**

· **Class** 3 Flammable liquids.

(Contd. on page 10)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 9)

· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: cyclohexane
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Page:**	33
· **EMS Number:**	F-E,S-E
· **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN1866, RESIN SOLUTION, (vapour pressure at 50 °C not more than 110 kPa), ENVIRONMENTALLY HAZARDOUS, 3, II

* SECTION 15: Regulatory information

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

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
III	2.6
NK	90.6

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

(Contd. on page 11)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 10)

* 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.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
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.

· **Contact:**

tesa SE : Dr. D. Lamm, Phone: +49-40-4909-2977, Email: dirk.lamm@tesa.com
tesa SE: Dr. A. Koeth, Phone: +49-40-4909-3938, 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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

(Contd. on page 12)

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

Printing date 06.01.2015 Version number 19 Revision: 06.01.2015

Trade name tesa 60153

(Contd. of page 11)

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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

Distributed by:
Rudolph Bros. & Co.
6550 Oley Speaks Way
Canal Winchester, OH 43110
Phone: 614-833-0707
Fax: 800-600-9508
e-mail: rbcsupport@rudbro.com
www.rudbro.com