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Tel.: +49-40-88899-101

# Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/14/2023 Printing date 06/14/2023

### 1 Identification

· Product identifier

· Trade name **TESA 60168 CHEMICAL RESISTANCE** 

· Application of the substance / the

mixture

Coating material

Priming Intermediate Adhesives

· Manufacturer/Supplier: tesa SE

> Hugo-Kirchberg-Str. 1 D-22848 Norderstedt

Germany

Informing department: tesa SE, Corporate Regulatory Affairs

SDS@tesa.com, Tel.: +49-40-88899-6954

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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



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Eye Irritation 2A H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements The product is classified and labeled according to the Globally Harmonized System

(GHS).

· Hazard pictograms





Danger · Signal word

· Hazard-determining components of

labeling:

ethyl acetate propan-2-ol

· Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use only outdoors or in a well-ventilated area.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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Store locked up.

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

· Classification system

· NFPA ratings (scale 0-4)

2 0

Health = 2 Fire = 3 Reactivity = 0

· HMIS ratings (scale 0-4)

HEALTH 2
FIRE 3
REACTIVITY 0

Health = 2 Fire = 3 Reactivity = 0

· 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:** Solvent mixture with additives.

Adhesion Promoter

· Characterisation equipment,

container: None

· Dangerou	· Dangerous components:	
	ethyl acetate	<100%
	Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	-
	propan-2-ol  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	<10%
546-68-9	tetraisopropoxytitanium	<2.5%

• Additional information The wording of the listed hazard statements can be found in section 16.

### 4 First-aid measures

· Description of first aid measures

General information
 After inhalation
 After skin contact
 Instantly remove any clothing soiled by the product.
 Supply fresh air; consult phsician in case of symptoms.
 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 Consult a doctor if symptoms persist

· Information for doctor

Most important symptoms and effects, both acute and delayed

May cause drowsiness / dizziness.

 Indication of any immediate medical attention and special treatment

needed No

No further relevant information available.

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# **5 Fire-fighting measures**

· Extinguishing media

· Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

· For safety reasons unsuitable extinguishing agents

Special hazards arising from the substance or mixture

Water with a full water jet.

In the event of a fire may be released:

Nitrogen oxides (NOx)
Under certain fire conditions, traces of other toxic substances cannot be excluded.

· Advice for firefighters

Protective equipment:

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:

Wear protective equipment. Keep unprotected persons away.



Prevent material from reaching sewage system, holes and cellars.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal

binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

• 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.

### · Protective Action Criteria for Chemicals

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· PAC-1:	
141-78-6 ethyl acetate	1,200 ppm
67-63-0 propan-2-ol	400 ppm
546-68-9 tetraisopropoxytitanium	22 mg/m³
123-54-6 pentane-2,4-dione	75 ppm
67-64-1 acetone	200 ppm
96-33-3 methyl acrylate	6 ppm
141-32-2 butyl acrylate	8.3 ppm
PAC-2:	
141-78-6 ethyl acetate	1,700 ppm
67-63-0 propan-2-ol	2000* ppm
546-68-9 tetraisopropoxytitanium	250 mg/m³
123-54-6 pentane-2,4-dione	110 ppm
67-64-1 acetone	3200* ppm
96-33-3 methyl acrylate	170 ppm
141-32-2 butyl acrylate	130 ppm
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· PAC-3:		
141-78-6	ethyl acetate	10000** ppm
	propan-2-ol	12000** ppm
546-68-9	tetraisopropoxytitanium	1,500 mg/m <sup>3</sup>
123-54-6	pentane-2,4-dione	200 ppm
67-64-1	acetone	5700* ppm
96-33-3	methyl acrylate	1,000 ppm
141-32-2	butyl acrylate	480 ppm

### 7 Handling and storage

· Handling

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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.

- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by
- storerooms and containers:
- · Information about storage in one

common storage facility:

Store in cool location.

Prohibition of co-storage with substances of storage classes 1, 2A, 4.1A, 4.1B, 4.2, 4.3, 5.1A, 5.1C, 5.2, 6.1B, 6.2, 7

Co-storage restrictions with substances of storage classes 5.1B, 6.1A, 6.1D, 11

· Further information about storage

conditions:

Store container in a well ventilated position.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers. Store only outside or in explosion proof rooms.

When storing flammable liquids, the national laws must be observed!

• 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 section 7.

· Control parameters

Components with critical values that require monitoring at the workplace:

TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL,

At this time, the remaining constituent has no known exposure limits.

### 141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m³, 400 ppm REL Long-term value: 1400 mg/m³, 400 ppm

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TLV Long-term value: 400 ppm

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m³, 400 ppm REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm

Short-term value: 400 ppm Long-term value: 200 ppm

BEI, A4

### Ingredients with biological limit values:

### 67-63-0 propan-2-ol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

· 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.

· Breathing equipment: Use respiratory protection with filter A 2.

Not necessary if room is well-ventilated.



In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Protection of hands:



Solvent resistant gloves

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

Butyl rubber, BR

Use solvent resistant 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

Butyl rubber (layer thickness min. 0.3 mm) max. 15 minutes

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Not suitable are gloves made of the following materials:

Nitrile rubber, NBR Natural rubber, NR Neoprene gloves

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· Eye protection:

Safety glasses recommended during refilling.



Safety glasses

9 Physical and chemical properties			
· Information on basic physical and chemical properties			
· General Information · Appearance:			
Form: Liquid			
Colour: According to produ	ct specification		
Smell: Product specific Odor threshold: Not determined.			
• pH-value: Not determined.			
Change in condition			
Melting point/Melting range: Not determined			
Boiling point/Boiling range: 77 °C (170.6 °F)			
· Flash point: -1 °C (30.2 °F)			
· Inflammability (solid, gaseous) Not applicable.			
· Auto igniting: 425 °C (797 °F)			
· Decomposition temperature: Not determined.			
· Self-inflammability: Product is not selfi	gniting.		
Danger of explosion: Product is not expossible.	plosive. However, formation of explosive air/steam mixtures is		
· Critical values for explosion:			
Lower: 2.1 Vol % 11.5 Vol %			
• • • • • • • • • • • • • • • • • • • •	~)		
• Steam pressure at 20 °C (68 °F): 100 hPa (75 mm F • Vapor pressure at 50 °C (122 °F): 360 hPa (270 mm			
· Density Not determined			
Relative density Vapor density Not determined. Not determined.			
Evaporation rate Not determined.			
· Solubility in / Miscibility with			
<b>Water at 20 °C (68 °F):</b> 79 g/l			
Partition coefficient (n-octanol/water): Not determined.			
Viscosity:			
dynamic: Not determined.  kinematic: Not determined.			
Not determined.			
· Solvent content:			
101 000111111001			

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• 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 Protect from heat.

· **Incompatible materials:** No further relevant information available.

· Hazardous decomposition

**products:** No dangerous decomposition products known

## 11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

Primary irritant effect:

· on the eye: Irritant effect.

• **Sensitization:** No sensitizing effect known.

· 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)	
67-63-0 propan-2-ol	3
96-33-3 methyl acrylate	2B
141-32-2 butyl acrylate	3
· 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:
 Persistence and degradability
 No further relevant information available.
 No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

Additional ecological information:

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

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

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• Other adverse effects No further relevant information available.

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## 13 Disposal considerations

- · 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.

Uncleaned packagings:

Packaging must be emptied of its residual contents. Empty packaging must be taken to a proper waste disposal facility for recovery or disposal in accordance with the legal regulations. Packaging that is not completely empty must be disposed of in coordination with the regional waste disposal company.

# 14 Transport information

•	I-NU	Numb	er	

· DOT, ADR, IMDG, IATA

· UN proper shipping name

· DOT

· ADR

· IMDG, IATA

Flammable liquids, n.o.s. (Ethyl acetate, Isopropanol)

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), (vapour pressure

at 50°C not more than 110 kPa)

UN1993

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE,

ISOPROPANOL (ISOPROPYL ALCOHOL))

- · Transport hazard class(es)
- · DOT



· Class 3 Inflammable liquids

· Label

· ADR



· Class 3 (F1) Inflammable liquids

· Label

· IMDG, IATA



· Class 3 Inflammable liquids

· Label

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· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Inflammable liquids 33 F-E, <u>S-E</u> B
· Transport in bulk according to Annex II of MA and the IBC Code	ARPOL73/78 Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA) (ETHYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

# 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)	
67-63-0 propan-2-ol	A4
67-64-1 acetone	A4
96-33-3 methyl acrylate	A4
141-32-2 butyl acrylate	A4

# · 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 avoids
- · Information about limitation of use: Employment restrictions concerning young persons must be observed.

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· Decree to be applied in case of

technical fault:

Critical quantity values according to the regulations on accidents should be adhered

· Technical instructions (air):

Class	Share in %
NK	95.8

· Other regulations, limitations and prohibitive regulations

·TSCA		
141-78-6	ethyl acetate	
67-63-0	propan-2-ol	
	tetraisopropoxytitanium	
26710-97-4	2-Propenoic acid, polymer with butyl 2-propenoate and 2-ethylhexyl 2-propenoate	
· SARA Section 313		
67-63-0 propan-2-ol		
SARA section 355		
-		
· Proposition 65 - Cancer		
-		

### 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

**Chemical safety assessment:** 

specification sheet: tesa SE, Corporate Regulatory Affairs

· Contact:

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

06/14/2023 Date of preparation / last revision

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer Abbreviations and acronyms: (Regulations Concerning the International Transport of Dangerous Goods by Rail)

A Chemical Safety Assessment has not been carried out.

ICAO: International Civil Aviation Organisation

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) 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

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3