WACKER

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Material: 60134151 **ELASTOSIL® E41 TRANSPARENT TF**

Revision Date: 02.04.2026 / Version 1.2 (GB)
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial product name: **ELASTOSIL® E41 TRANSPARENT TF**

This substance/ mixture contains nanoforms (according to REACH Regulation)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / preparation:
Industrial.
adhesives .

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:
Street/POB-No.:
State/postal code/city:
Telephone:

Suter Kunststoffe AG
Aefligenstrasse 3
CH-3312 Fraubrunnen
+41 (0)31 763 60 60
+41 (0)31 763 60 61
Telefon +41 31 763 60 60
Telefax +41 31 763 60 60

Information about the Safety Data Sheet: E-Mail info@swiss-composite.ch

1.4 Emergency telephone number

Emergency Information:

ToxInfo Zürich **145**
ToxInfo Zürich **+41 44 251 51 51**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Classification	H-Code
Long-term (chronic) aquatic hazard, Category 3	H412
Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/ attention.

2.3 Other hazards

No data available.
Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polydimethylsiloxane + auxiliary + silane + solvent

3.2.2 Hazardous ingredients

silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	>=10 – <25 %
CAS-No.: 68909-20-6	EC-No.: 272-697-1 / Index-No.: 014-052-00-7
INHA [1]	
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	STOT RE 2, by inhalation / H373 (Lungs) EUH066
Synthetic amorphous silicon dioxide, nanostructured material, silanized	
Particle Size Distribution: Type of distribution: number distribution, State during measurement: agglomerates, d50 = 100 - 750 µm, Measurement technique: laser diffraction Type of distribution: number distribution, State during measurement: aggregates, d50 = 60 - 300 nm, Measurement technique: Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation Type of distribution: number distribution, State during measurement: Primary structure, d50 = 6 - 50 nm, Measurement technique: Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation Form / Aspect Ratio (:1): Form: fractal aggregates, Aspect Ratio (:1): 1 - 3, Measurement technique: TEM Crystallinity: Crystallinity: amorphous, Measurement technique: X-ray Diffraction (XRD) Chemical Surface Functionalisation: Chemical Surface Functionalisation: none, Properties of Coated Particle: hydrophobic Specific surface: 40 - 350 m²/g	

C7 - C9 Isoalkanes	>10 – <20 %
CAS-No.: 90622-56-3	EC-No.: 292-458-5
INHA [1]	REACH No.: 01-2119471305-42
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	STOT SE 3 / H336; Asp. Tox. 1 / H304; Aquatic Chronic 2 / H411; Flam. Liq. 2 / H225; Skin Irrit. 2 / H315

Triacetoxymethylsilane	>5 – <10 %
CAS-No.: 4253-34-3	EC-No.: 224-221-9
INHA [1]	REACH No.: 01-2119962266-32
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Skin Corr. 1C / H314; Acute Tox. 4, oral / H302; Eye Dam. 1 / H318 EUH014

Di-n-butyltin diacetate	>=0,025 – <0,1 %
CAS-No.: 1067-33-0	EC-No.: 213-928-8
INHA [1]	REACH No.: 01-2119634587-29
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Skin Corr. 1B / H314; Muta. 2 / H341; Repr. 1B / H360D; Repr. 1B / H360F; STOT RE 1 / H372 (Immune system); Aquatic Acute 1 / H400; Aquatic Chronic 1 / H410; Eye Dam. 1 / H318; Skin Sens. 1B / H317; STOT SE 1 / H370 (thymus) M-Factor, Acute = 10 M-Factor, Chronic = 10

Octamethylcyclotetrasiloxane	>=0,025 – <0,1 %
CAS-No.: 556-67-2	EC-No.: 209-136-7 / Index-No.: 014-018-00-1
VERU [1], [3], [4]	

Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Repr. 2 / H361f; Aquatic Chronic 1 / H410; Flam. Liq. 3 / H226 M-Factor, Chronic = 10

Type: INHA: ingredient, VERU: impurity

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = Endocrine disrupting properties

*For explanation of abbreviations see section 16.

Regarding CAS no. 90622-56-3: This substance can also be described by CAS no. 64741-66-8.

The hazards associated with respirable particulate exposure do not apply to this material. All fillers, pigments and similar ingredients are incorporated in a non-respirable form, and under normal conditions of use are expected to remain inextricably bound within the product.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Take persons to a safe place. Observe self-protection for first aid. Seek medical advice in the event of contact with this substance.

After contact with the eyes:
Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice and clearly identify substance.

After contact with the skin:
Remove contaminated or soaked clothing. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice and clearly identify substance.

After inhalation:
Keep the patient calm. Protect against loss of body heat. Seek medical advice and clearly identify substance.

After swallowing:
If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
alcohol-resistant foam , carbon dioxide , water mist , sprinkler system , sand , extinguishing powder .

Extinguishing media which must not be used for safety reasons:
water jet .

5.2 Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighting:
Use respiratory protection independent of recirculated air. Use tightly fitting chemical protection suit (see section 8). Keep unprotected persons away.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Task force: Use tightly fitting chemical protection suit (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not walk through spilled material. Ensure adequate ventilation. If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:
Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

Precautions against fire and explosion:
Product may release acetic acid. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:
Observe local/state/federal regulations.

Advice for storage of incompatible materials:
Observe local/state/federal regulations.

Further information for storage:
Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m³	ppm	Dust fract.	Fibre/m³
Acetic acid	OEL	25,0	10,0		
Acetic acid	EU	25,0	10,0		

-

Acetic acid: The short-time value of the EU threshold isime value of the EU threshold is 50 mg/m3 (= 20 ppm).

Derived No-Effect Level (DNEL):

C7 - C9 Isoalkanes

Area of use:	Value:
Worker; dermal; systemic (long term)	773 mg/kg/day
Worker; by inhalation; systemic (long term)	2035 mg/m³
Consumer; dermal; systemic (long term)	699 mg/kg/day
Consumer; by inhalation; systemic (long term)	608 mg/m³
Consumer; oral; systemic (long term)	699 mg/kg/day

Triacetoxymethylsilane

Area of use:	Value:
Worker; by inhalation; systemic (long term) systemic (acute)	25 mg/m³
Worker; dermal; systemic (long term) systemic (acute)	14,5 mg/kg/day
Consumer; by inhalation; local (long term) local (acute)	5,1 mg/m³
Consumer; dermal; systemic (long term) systemic (acute)	7,2 mg/kg/day
Consumer; oral; systemic (long term) systemic (acute)	1 mg/kg/day

Predicted No Effect Concentration (PNEC):

C7 - C9 Isoalkanes

Area of use:	Value:
General	A regular PNEC could not be derived.

Triacetoxymethylsilane

Area of use:	Value:
freshwater	1,0 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
marine water	0,10 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
Intermittent release	10 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
Sediment (freshwater)	0,80 mg/kg wet weight The value was derived for the corresponding silanetriol (hydrolysis product).
Sediment (marine water)	0,080 mg/kg wet weight The value was derived for the corresponding silanetriol (hydrolysis product).
Soil	0,13 mg/kg wet weight The value was derived for the corresponding silanetriol (hydrolysis product).
sewage treatment plant	10 mg/l

Further information:
Maximum concentration at workplace recommended by producer: octamethylcyclotetrasiloxane (D4, CAS no. 556-67-2) = 10 ppm (123 mg/m^3).

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:
Avoid exposure - obtain special instructions before use. Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.
Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.
Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

tight fitting protective goggles, according to acknowledged standards such as EN 166.

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of fluorinated rubber
thickness of the material: > 0,7 mm
Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of 5-layer laminate of PE and EVOH (4H)
thickness of the material: > 0,062 mm
Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

Chemical protective clothing, according to acknowledged standards such as EN 13034, full-body liquid-tight protection if necessary, according to acknowledged standards such as EN 14605, if handled uncovered. Please observe the instructions regarding permeability time which are provided by the supplier.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil. Normally neutralisation is required before waste water is introduced into purification plants. Do not introduce large amounts into purification plants.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Physical state	liquid	
Form	paste	
Colour	colourless	
Odour	similar to acetic acid	
Odour Threshold	no data available	
Melting point	exempt	
Boiling point/boiling range	111 °C at 1013 hPa	(not specified)
Lower explosion limit	1,2 Vol-%	(not specified)
Upper explosion limit	7 Vol-%	(not specified)
Flash point	14 °C	(ISO 3679)
Ignition temperature	412 °C	(DIN EN ISO/IEC 80079-20-1)
Thermal decomposition	exempt	
pH	Not applicable. Insoluble in water.	
Viscosity, kinematic	not applicable	
Viscosity, dynamic	65000 mPa.s at 23 °C	(Brookfield)
Water solubility	practically insoluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	29 hPa at 20 °C	(not determined)
Density	1,048 g/cm³ (23 °C)	(DIN EN ISO 2811-2)
Relative vapour density	no data available	
Particle Size Distribution	Not applicable.	

9.2 Other information

Hydrolysis products reduce the flash point. Explosion limits for released acetic acid: 4 - 17%(V).

Property:	Value:	Method:
Sustained combustibility	not determined	
Evaporation rate	no data available	
Molecular weight	not applicable	

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Violent reactions are possible with various chemicals.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

10.5 Incompatible materials

Reacts with: water , basic substances and alcohols . The reaction takes place with the formation of acetic acid.

10.6 Hazardous decomposition products

Acetic acid by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Acute toxicity estimate (ATE):
ATE_{mix} (Oral): > 2000 mg/kg

Data on substances:

C7 - C9 Isoalkanes:

Exposure routes	Result/Effect
Oral	LD50 > 5000 mg/kg Species: Rat, Source: ECHA
dermal	LD50 > 2000 mg/kg Species: Rabbit, Source: literature
by inhalation (vapour)	LC50 > 21 mg/l; 4 h Mortality has been observed at the given dose level. Species: Rat, Source: ECHA

11.1.3 Skin corrosion/irritation

Product details:

irritating
The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence").
(Species: Rabbit, Source: Conclusion by analogy)

Data on substances:

C7 - C9 Isoalkanes:

irritating
(Species: not specified, Source: ECHA)

11.1.4 Serious eye damage/eye irritation

Product details:

irritating
The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence").
(Species: Rabbit, Source: Conclusion by analogy)

Data on substances:

C7 - C9 Isoalkanes:

No eye irritation
(Species: Rabbit, Source: ECHA)

11.1.5 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

C7 - C9 Isoalkanes:

Exposure routes	Result
Skin contact	Does not cause skin sensitization. (Species: Guinea pig, Test system: Maximisation Test, Test substance: read-across substance, Source: ECHA)

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity - single exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

C7 - C9 Isoalkanes:

Vapours may be narcotising.

11.1.10 Specific target organ toxicity - repeated exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Data on substances:

C7 - C9 Isoalkanes:

Product can pose an aspiration hazard.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Further toxicological information

In contact with dampness product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

For the product as a whole, no test data is available. D4 is an unavoidable contamination in the manufacture of silicone polymers and leads to adverse effects on aquatic organisms under laboratory conditions. The release of D4 from a polysiloxane matrix is limited thermodynamically by the partition equilibrium silicone/water. Thus, only that portion of the D4 content that gets into the aqueous phase contributes to the environmental hazard of the overall product. For the classification according to the summation method this is being considered applying correction factors.

12.2 Persistence and degradability

Assessment:

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

12.3 Bioaccumulative potential

Assessment:

Polymer component: No adverse effects expected.

12.4 Mobility in soil

Assessment:

Polymer component: insoluble in water.

12.5 Results of PBT and vPvB assessment

PBT assessment
No data available.

vPvB Assessment
No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:
Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging

Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 UN number or ID number

ADR .....: UN1993
RID.....: UN1993
IMDG.....: UN1993
ICAO/IATA .....: UN1993

14.2 Proper shipping name

ADR .....: Entzündbarer flüssiger Stoff, n.a.g. (C7 - C9 Isoalkane, n-Propanol)
ADR (Domestic transport regulations)....: Flammable liquid, n.o.s (C7 - C9 Isoalkanes, n-Propanol)
RID.....: Entzündbarer flüssiger Stoff, n.a.g. (C7 - C9 Isoalkane, n-Propanol)
RID (Domestic transport regulations).....: Flammable liquid, n.o.s (C7 - C9 Isoalkanes, n-Propanol)
IMDG.....: Flammable liquid, n.o.s. (C7 - C9 Isoalkanes, n-Propanol)
ICAO/IATA .....: Flammable liquid, n.o.s. (C7 - C9 Isoalkanes, n-Propanol)

14.3 Transport hazard class

ADR .....: 3
(Limited quantity (LQ): 1L)
RID.....: 3
IMDG.....: 3
ICAO/IATA .....: 3

14.4 Packing group

ADR .....: II
RID.....: II
IMDG.....: II
ICAO/IATA .....: II

14.5 Environmental hazards

Environmentally hazardous: no
Marine pollutant (IMDG): no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Control of Major Accident Hazards Regulations 2015 (COMAH)

Listed in Directive	Ser. number in list	Qualifying Quantity 1	Qualifying Quantity 2
FLAMMABLE LIQUIDS	P5c	5.000 t	50.000 t

Relevant regulations:
SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Banned and/or restricted

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan ..... :	**ENCS** (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia ..... :	**AIIC** (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China..... :	**IECSC** (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada ..... :	**DSL** (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines..... :	**PICCS** (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA)..... :	**TSCA** (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan ..... :	**TCSI** (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA)..... :	**REACH** (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea) ..... :	**AREC** (Act on Registration and Evaluation of Chemicals; “K-REACH”): Please approach your regular contact for more detailed information.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm³ - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;IC50 / CI50 - half maximal inhibitory concentration;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m³ - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm²/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

Full text of H-Statements:

STOT RE 2; H373	:	Specific target organ toxicity - repeated exposure Category 2; May cause damage to organs through prolonged or repeated exposure if inhaled.
EUH066.....	:	Repeated exposure may cause skin dryness or cracking.
STOT SE 3; H336.....	:	Specific target organ toxicity - single exposure Category 3; May cause drowsiness or dizziness.
Asp. Tox. 1; H304.....	:	Aspiration hazard Category 1; May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411	:	Long-term (chronic) aquatic hazard Category 2; Toxic to aquatic life with long lasting effects.
Flam. Liq. 2; H225	:	Flammable liquids Category 2; Highly flammable liquid and vapour.
Skin Irrit. 2; H315.....	:	Skin corrosion/irritation Category 2; Causes skin irritation.
Skin Corr. 1C; H314 ..	:	Skin corrosion/irritation Category 1C; Causes severe skin burns and eye damage.
Acute Tox. 4; H302....	:	Acute toxicity Category 4; Harmful if swallowed.
Eye Dam. 1; H318	:	Serious eye damage/eye irritation Category 1; Causes serious eye damage.
EUH014.....	:	Reacts violently with water.
Skin Corr. 1B; H314...	:	Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.
Muta. 2; H341.....	:	Germ cell mutagenicity Category 2; Suspected of causing genetic defects.
Repr. 1B; H360D	:	Reproductive toxicity Category 1B; May damage the unborn child.
Repr. 1B; H360F.....	:	Reproductive toxicity Category 1B; May damage fertility.
STOT RE 1; H372	:	Specific target organ toxicity - repeated exposure Category 1; Causes damage to organs through prolonged or repeated exposure.
Aquatic Acute 1; H400:		Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.
Aquatic Chronic 1; H410	:	Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
Eye Dam. 1; H318	:	Serious eye damage/eye irritation Category 1; Causes serious eye damage.
Skin Sens. 1B; H317 .	:	Skin sensitisation Category 1B; May cause an allergic skin reaction.
STOT SE 1; H370.....	:	Specific target organ toxicity - single exposure Category 1; Causes damage to organs.
Repr. 2; H361f.....	:	Reproductive toxicity Category 2; Suspected of damaging fertility.
Aquatic Chronic 1; H410	:	Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
Flam. Liq. 3; H226	:	Flammable liquids Category 3; Flammable liquid and vapour.

Classification	Rationale:
Long-term (chronic) aquatic hazard, Category 3	Calculation method
Flammable liquids, Category 2	On basis of test data.
Skin corrosion/irritation, Category 2	On basis of test data.
Serious eye damage/eye irritation, Category 2	On basis of test data.

- End of Safety Data Sheet -