

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

Material: 60003726

**ELASTOSIL® E41
TRANSPARENT**

Version 6.1 (GB)

Print Date 16.06.2023

Date of last alteration: 05.06.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Commercial product name: ELASTOSIL® E41
TRANSPARENT**

This substance/ mixture contains nanoforms

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

Use of substance / preparation:

Industrial.

Adhesive / sealant .

Supplier: Transfer Multisort Elektronik Ltd.

Coleshill, Birmingham Coleshill House Suite 1C, 1 Station Road

+44 1675790026 e-mail: office@tme-uk.eu

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:

Street/POB-No.:

State/postal code/city:

Telephone:

Wacker Chemie AG

Hanns-Seidel-Platz 4

D 81737 München

+49 89 6279-0

Contact point:

Street/POB-No.:

Postal code/city:

Country:

Telephone:

Wacker Chemicals Ltd.

2 Arlington Square, Downshire Way

Bracknell RG12 1WA

United Kingdom

+44 1344 401 670

Information about the Safety Data Sheet:

Telephone

eMail

+49 8677 83-4888

WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information:

+44 1273 289451**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
Specific target organ toxicity - repeated exposure, Category 2	H373
Long-term (chronic) aquatic hazard, Category 3	H412
Reproductive toxicity, Category 2	H361d
Serious eye damage/eye irritation, Category 2	H319
Skin corrosion/irritation, Category 2	H315
Flammable liquids, Category 2	H225

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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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H412	Harmful to aquatic life with long lasting effects.
P-Code	Precautionary Statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
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.
P260	Do not breathe vapours/spray.
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.
P405	Store locked up.

Hazard ingredients (labelling):

Toluene

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

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3.2.2 Hazardous ingredients

Toluene		>10 – <20 %
CAS-No.: 108-88-3	EC-No.: 203-625-9	Index-No.: 601-021-00-3
INHA	[1], [2]	REACH No.: 01-2119471310-51
Classification according to Regulation (EC) No. 1272/2008*	Aquatic Chronic 3 / H412; Repr. 2 / H361d; STOT RE 2 / H373; STOT SE 3 / H336; Skin Irrit. 2 / H315; Asp. Tox. 1 / H304; Flam. Liq. 2 / H225	
Triacetoxymethylsilane		>5 – <10 %
CAS-No.: 4253-34-3	EC-No.: 224-221-9	
INHA	[1]	REACH No.: 01-2119962266-32
Classification according to Regulation (EC) No. 1272/2008*	Skin Corr. 1C / H314; Acute Tox. 4, oral / H302; Eye Dam. 1 / H318 EUH014	
Di-n-butyltin diacetate		<0,1 %
CAS-No.: 1067-33-0	EC-No.: 213-928-8	
INHA	[1]	REACH No.: 01-2119634587-29
Classification according to Regulation (EC) No. 1272/2008*	Skin Corr. 1B / H314; Muta. 2 / H341; Repr. 1B / H360D; Repr. 1B / H360F; STOT RE 1 / H372 (thymus); 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		<0,1 %
CAS-No.: 556-67-2	EC-No.: 209-136-7	Index-No.: 014-018-00-1
VERU	[1], [3], [4]	
Classification according to Regulation (EC) No. 1272/2008*	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

*Classification codes are explained in section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible). Vapours may cause dizziness. Do not leave affected individuals unattended. Pregnant women exposed to this substance must seek medical advice.

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Provide fresh air.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

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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

After exposure, specialist advice (e.g. gynaecology/birth aid or, if necessary, toxicology/human genetics) is recommended.
Product contains reproductive toxins (may cause harm to the unborn child and /or impairs male or female reproductive function).

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

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: carbon oxides , silicon oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes . Heavy soot formation during combustion.

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. Contain any fluid that runs out using suitable material (e.g. earth). 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

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with liquid, mainly acid binding material and dispose of according to local/state/federal regulation. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. 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**

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Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

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/m ³	ppm	Dust fract.	Fibre/m ³
Toluene	OEL	191,0	50,0		
Toluene	EU	192,0	50,0		
Acetic acid	OEL	25,0	10,0		
Acetic acid	EU	25,0	10,0		

Toluene: STEL (EU) is 384 mg/m³ (=100 ppm), can be absorbed through the skin.

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):**Toluene**

Area of use:	Value:
Worker; by inhalation; systemic (acute) local (acute)	384 mg/m ³
Worker; by inhalation; systemic (long term) local (long term)	192 mg/m ³
Worker; dermal; systemic (long term)	384 mg/kg bw/day
Consumer; by inhalation; systemic (acute) local (acute)	226 mg/m ³
Consumer; by inhalation; systemic (long term)	56,5 mg/m ³
Consumer; dermal; systemic (long term)	226 mg/kg bw/day
Consumer; oral; systemic (long term)	8,13 mg/kg bw/day

Triacetoxymethylsilane

Area of use:	Value:
Worker; by inhalation; systemic (long term) systemic (acute)	25 mg/m ³
Worker; dermal; systemic (long term) systemic (acute)	14,5 mg/kg/day
Consumer; by inhalation; local (long term) local (acute)	5,1 mg/m ³
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):

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Toluene

Area of use:	Value:
freshwater	0,68 mg/l
marine water	0,68 mg/l
Intermittent release	0,68 mg/l
Sediment	16,39 mg/kg dry mass
Sediment (marine water)	16,39 mg/kg dry mass
Soil	2,89 mg/kg dry mass
sewage treatment plant	13,61 mg/l

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

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. Avoid exposure of the substance to pregnant women. Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Preventive skin protection recommended. Wash hands at the end of work and before eating. Keep working clothes separately. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Use with adequate ventilation. Provide emergency shower and eye-bath. Keep away from foodstuff, drink and feedingstuff.

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.

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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. antistatic protective clothing, according to acknowledged standards such as EN 1149 and antistatic working shoes, according to acknowledged standards such as ISO 20345 and ISO 20347.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Physical state	liquid	
Colour	colourless	
Odour	strong	
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.....	6 °C	(DIN 53213)
Ignition temperature	540 °C	(DIN 51794)
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	1,078 g/cm ³ (23 °C)	(DIN 53217)
Relative vapour density	no data available	
Particle Size Distribution	Not applicable.	

9.2 Other information

Solubility in water: Hydrolytic decomposition occurs. pH Value: Product displays acidic reaction with water.

Explosion limits for released acetic acid: 4 - 17%(V).

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Property:	Value:	Method:
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 violently 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.

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): > 5000 mg/kg

Data on substances:**Toluene:**

Exposure routes	Result/Effect
Oral	LD50 5580 mg/kg Species: Rat, Source: ECHA
dermal	LD50 12267 mg/kg Species: Rabbit, Source: ECHA
by inhalation (vapour)	LC50 28,1 mg/l; 4 h 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:**Toluene:**

irritating

(Species: Rabbit, Method: OECD 404, Source: ECHA)

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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:****Toluene:**

No eye irritation

(Species: Rabbit, Method: OECD 405, Source: ECHA)

11.1.5 Respiratory or skin sensitisation**Assessment:**

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

Data on substances:**Toluene:**

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Test system: Maximisation Test, Method: OECD 406, Source: ECHA)

11.1.6 Germ cell mutagenicity**Assessment:**

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

Data on substances:**Toluene:**

negative (Metabolic activation: with and without metabolic activation, Test system: mutation assay (in vitro) / mouse lymphoma cells, Method: OECD 476, Source: ECHA)
negative (Metabolic activation: with and without metabolic activation, Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: ECHA)
negative (Test system: chromosome aberration assay (in vivo), Species: Rat, Application Route: Intraperitoneal, Cell type: bone marrow cells, Source: ECHA)

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.

Data on substances**Toluene:**

The substance can possibly impair the unborn child in humans.

11.1.9 Specific target organ toxicity - single exposure**Assessment:**

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

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Data on substances:**Toluene:**

Result/Effect

Exposure routes: by inhalation
target organs: Central nervous system
Vapours may be narcotising.
Source: ECHA

11.1.10 Specific target organ toxicity - repeated exposure**Assessment:**

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

Data on substances:**Toluene:**

Target organs in animal experiments: Central nervous system.

11.1.11 Aspiration hazard**Assessment:**

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

Data on substances:**Toluene:**

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.

Data on substances:**Toluene:**

No data available.

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.

Data on substances:

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

Toluene:

Result/Effect	Species/Test system	Source
LC50: 5,5 mg/l (measured)	flow-through test Oncorhynchus kisutch (coho salmon) (96 h)	ECHA
EC50: 3,78 mg/l (measured)	semi-static test Daphnia (water flea) (48 h)	ECHA
EC50 (photosynthesis): 134 mg/l (nominal)	algae (3 h)	ECHA

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NOEC (Growth): 1,39 mg/l	Oncorhynchus kisutch (coho salmon) (40 d)	ECHA
NOEC (reproduction rate): 0,74 mg/l	Ceriodaphnia dubia (water flea) (7 d)	ECHA

12.2 Persistence and degradability**Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation.

Data on substances:**Toluene:**

Readily biodegradable.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

12.4 Mobility in soil**Assessment:**

No data known.

12.5 Results of PBT and 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.

Data on substances:**Toluene:**

No data available.

12.7 Other adverse effects

none known

Additional information

In cross-linked state not soluble in water. Easily separable from water by filtration.

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.

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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. (enthält Toluol und n-Propanol)
 ADR (Domestic transport regulations) ... : Flammable liquid, n.o.s (contains toluene and n-propanol)
 RID..... : Entzündbarer flüssiger Stoff, n.a.g. (enthält Toluol und n-Propanol)
 RID (Domestic transport regulations) : Flammable liquid, n.o.s (contains toluene and n-propanol)
 IMDG..... : Flammable liquid, n.o.s. (contains toluene and n-propanol)
 ICAO/IATA..... : Flammable liquid, n.o.s. (contains toluene and 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.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

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.

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Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

REACH Annex XVII: This product contains toluene in an amount of over 0.1 wt.%. Annex XVII, entry 48, of regulation 1907/2006, in its current version, must be taken into account.

Regulation (EC) 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.
New Zealand	: NZIoC (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
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.

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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; NOAEC - 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

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Explanation of the GHS classification code:

Aquatic Chronic 3; H412 : Long-term (chronic) aquatic hazard Category 3; Harmful to aquatic life with long lasting effects.
 Repr. 2; H361d : Reproductive toxicity Category 2; Suspected of damaging the unborn child.
 STOT RE 2; H373 : Specific target organ toxicity - repeated exposure Category 2; May cause damage to organs through prolonged or repeated exposure.

STOT SE 3; H336..... : Specific target organ toxicity - single exposure Category 3; May cause drowsiness or dizziness.
 Skin Irrit. 2; H315..... : Skin corrosion/irritation Category 2; Causes skin irritation.
 Asp. Tox. 1; H304..... : Aspiration hazard Category 1; May be fatal if swallowed and enters airways.
 Flam. Liq. 2; H225 : Flammable liquids Category 2; Highly flammable liquid and vapour.
 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:
Specific target organ toxicity - repeated exposure, Category 2	Calculation method
Long-term (chronic) aquatic hazard, Category 3	Calculation method
Reproductive toxicity, Category 2	Calculation method
Serious eye damage/eye irritation, Category 2	On basis of test data.
Skin corrosion/irritation, Category 2	On basis of test data.
Flammable liquids, Category 2	On basis of test data.

- End of Safety Data Sheet -