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Debubbler-SI**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product identifier**
 Tradename: Debubbler-SI
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Use of substance / preparation: Industrial. Commercial.
 elastomer products
- 1.3 Details of the supplier of the safety data sheet**
 Manufacturer/Supplier: al dente Dentalprodukte GmbH
 Street / mailbox: Borsigstr. 1
 Country code. / postal code / city: D - 38644 Goslar
 Phone: 0 53 21 / 80031
 Fax: 0 53 21 / 50881
 E-mail / Website: info@aldente.de / www.aldente.de
 Further information obtainable from: al dente Dentalprodukte GmbH
- 1.4 Emergency telephone number**
 al dente Dentalprodukte GmbH: +49 (0) 53 21 / 80031 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification	H-Code
Long-term (chronic) aquatic hazard, Category 2	H411
Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2A	H319
Aspiration hazard, Category 2	H305
Short-term (acute) aquatic hazard, Category 1	

2.2 Label elements**Pictogram(s):****Signal word:**

Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H305	May be harmful if swallowed and enters airways.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic 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.
P280	Wear protective gloves/protective clothing/eye protection.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.

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Hazard ingredients (labelling):
Hexamethyldisiloxane
Isopropanol

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 with functional groups + solvent

3.2.2 Hazardous ingredients

Type	CAS No.	Substance	Content %	Classification*	Comment
INHA	107-46-0	Hexamethyldisiloxane	>75	Flam. Liq. 2; H225 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	Ma = 1
INHA	67-63-0	Isopropanol	>10 – <20	Asp. Tox. 2; H305 Flam. Liq. 2; H225 STOT SE 3; H336 Eye Irrit. 2A; H319	
INHA	27306-78-1	Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]-	<3	Aquatic Acute 2; H401 Aquatic Chronic 2; H411 Acute Tox. 4 by inhalation / dust/mist; H332 Eye Irrit. 2A; H319	

Type: INHA: ingredient, VERU: impurity

Ma = M-factor for acute aquatic toxicity

Mc = M-factor for chronic aquatic toxicity

*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**

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General information:	Remove contaminated clothes at once. Where there is a risk of unconsciousness place and transport on one side in a stable position.
After contact with the eyes:	Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.
After contact with the skin:	Wash with plenty of water or soap and water; immediately remove all contaminated clothing. In cases of sickness seek medical advice (show label if possible).
After inhalation:	Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. If unconscious place in stable sideways position. 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 immediately and produce the label or packaging.
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 agents: Extinguishing media which must not be used for safety reasons:	Alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder. 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 firefighting:	Use respiratory protection independent of recirculated air. 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). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.
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

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		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 a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. 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. Consider explosion protection. Eliminate all sources of ignition. 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:	Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8. Ensure adequate ventilation. Must be syphoned off in situ.
	Precautions against fire and explosion:	Flammable vapours 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. Store container in a well ventilated place.
7.3	Specific end use(s):	No data available.

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SECTION 8: Exposure controls/personal protection

8.1	Control parameters	-
8.2	Exposure controls:	
8.2.1	Exposure in the work place limited and controlled	
	General protection and hygiene measures:	Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. 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.
	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 Observe the equipment manufacturer's information and wear time limits for respirators.
	Eye protection:	Tight fitting protective goggles.

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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 nitrile rubber

thickness of the material: > 0,4 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 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:

If handled uncovered: Chemical protective clothing, full-body liquid-tight protection if necessary. Please observe the instructions regarding permeability time which are provided by the supplier. Antistatic protective clothing and shoes.

8.2.2 Exposure to the environment limited and controlled:

Prevent material from entering surface waters and soil. 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
	Appearance:		
	Physical state:	liquid	
	Colour:	colourless	
	Odour:	faint	
	Odour limit:	no data available	
	pH:	Not applicable. Product displays neutral reaction with water.	
	Melting point/freezing point		
	Boiling point/boiling range:	100 °C at 1013 hPa	
	Flash point:	3 °C	(not specified)
	Evaporation rate:	no data available	
	Upper/lower flammability or explosive limits		
	Lower explosion limit (LEL):	2,0 Vol-%	
	Upper explosion limit (UEL):	12 Vol-%	
	Vapour pressure:	175 hPa / 50 °C	
	Vapour pressure:	44 hPa / 20 °C	
	Solubility(ies)		
	Water solubility / miscibility:	practically insoluble	
	Vapour density		
	Relative gas/vapour density:	No data known.	

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Relative Density:	0,77 (23 °C) (Water / 4 °C = 1,00)	
Density:	0,77 g/cm ³ (23 °C)	
Partition coefficient: n-octanol/water:	not applicable	
Auto-ignition temperature		
Ignition temperature:	325 °C	(not specified)
Decomposition temperature		
Thermal decomposition:	exempt	
Viscosity (kinematic):	0,7 mm ² /s at 25 °C	
Molecular mass:	not applicable	

9.2 Other information: No data available.

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. Relevant information can possibly be found in other parts of this section.
10.4 Conditions to avoid:	Heat, open flames, and other sources of ignition.
10.5 Incompatible materials:	None known.
10.6 Hazardous decomposition products:	If stored and handled properly: none known. The following applies for the silicone content of the substance: 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 toxicological effects	
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:	

Hexamethyldisiloxane:

Exposure routes	Result/Effect
Oral	LD50 12160 mg/kg Species: Rat, Source: test report
dermal	LD50 > 2000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose. Species: Rabbit, Method: OECD 402, Source: test report
by inhalation ((vapour))	LC50 106 mg/l / 15956 ppm; 4 h Species: Rat, Method: OECD 403, Source: test report

Isopropanol:

Exposure routes	Result/Effect
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Oral	LD50 > 5000 mg/kg Species: Rat, Source: ECHA
dermal	LD50 > 5000 mg/kg Species: Rabbit, Source: ECHA
by inhalation ((vapour))	LC50 > 10000 ppm; 6 h Species: Rat, Method: OECD 403, Source: ECHA

11.1.3 Skin corrosion/irritation**Assessment:**

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

Data on substances:**Hexamethyldisiloxane:**

No skin irritation
(Species: Rabbit, Method: OECD 404, Source: test report)

Isopropanol:

No skin irritation
(Species: not specified, Source: literature)

11.1.4 Serious eye damage / eye irritation**Assessment:**

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

Data on substances:**Hexamethyldisiloxane:**

No eye irritation
(Species: Rabbit, Method: OECD 405, Source: test report)

Isopropanol:

irritating
(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:**Hexamethyldisiloxane:**

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Voluntary persons, Test system: Human skin patch test, Source: test report)

Isopropanol:

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Test system: Buehler 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:**Hexamethyldisiloxane:**

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negative (with and without metabolic activation) (Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: test report)
negative (with and without metabolic activation) (Test system: mutation assay (in vitro) / mammalian cells, Method: OECD 476, Source: test report)
negative (with and without metabolic activation) (Test system: chromosome aberration assay (in vitro) / mammalian cells, Method: OECD 473, Source: test report)
negative (Test system: chromosome aberration assay (in vivo), Species: Rat, Strain: Sprague-Dawley, Application Route: Intraperitoneal, Cell type: bone marrow cells, Method: OECD 475, Source: test report)

11.1.7 Carcinogenicity**Assessment:**

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

Data on substances:**Hexamethyldisiloxane:**

Animal tests have not revealed any carcinogenic effects.

NOAEC: $\geq 33,2$ mg/l NOAEC = NOAEC (carcinogenic effects relevant for humans) (Test system: carcinogenicity study, Species: Rat, Strain: Fischer F344, Application Route: by inhalation, Route of administration: (vapour), Test period: 2 a, Frequency of Treatment: 5 d/w, hours/day: 6, Method: OECD 453, Source: test report)
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11.1.8 Reproductive toxicity**Assessment:**

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

Data on substances:**Hexamethyldisiloxane:**

Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

Reproductive Toxicity/Fertility
NOAEC: $\geq 33,2$ mg/l NOAEC = NOAEC (fertility) (Test system: Two-generation study, Species: Rat, Strain: Sprague-Dawley, Application Route: by inhalation, Route of administration: (vapour), Frequency of Treatment: 7 d/w, hours/day: 6, Method: EPA OPPTS 870.3800+870.6300, Source: test report)

Reproductive Toxicity/Development/Teratogenicity
NOAEC (developmental): 10,6 mg/l NOAEC (maternal): $\geq 33,2$ mg/l (Symptoms/Effect: Pups: lack of habituation, Test system: Reproduction and Fertility Effects + Developmental Neurotoxicity Study, Species: Rat, Strain: Sprague-Dawley, Application Route: by inhalation, Route of administration: (vapour), Frequency of Treatment: 7 d/w, hours/day: 6, Method: EPA OPPTS 870.3800+870.6300, Source: test report)

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:**Isopropanol:****Result/Effect**

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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:**Hexamethyldisiloxane:**

In animal experiments with repeated exposure no effects with relevance for humans were observed.

Result/Effect
NOAEL: \geq 1000 mg/kg NOAEL = NOAEL (relevant to humans) (Test system: Subacute study, Species: RatApplication Route: Oral, Route of administration: gavage, Test period: 28 d, Method: OECD 407, Source: test report)
NOAEL: \geq 1000 mg/kg NOAEL = NOAEL (relevant to humans) (Test system: Subacute study, Species: RatApplication Route: dermal, Test period: 28 d, Frequency of Treatment: 5 d/w, hours/day: 6, Method: OECD 410, Source: test report)
NOAEC: $>$ 33,2 mg/l NOAEC = NOAEC (relevant to humans) (Test system: chronic study, Species: RatRoute of administration: (vapour), Test period: 2 a, Frequency of Treatment: 5 d/w, hours/day: 6, Method: OECD 453, Source: test report)

11.1.11 Aspiration hazard**Assessment:**

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

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:**Hexamethyldisiloxane:**

No data available.

Isopropanol:

No data available.

11.2.2 Further toxicological information:

None known.

Data on substances:**Hexamethyldisiloxane:**

May cause skin irritation at prolonged/repeated contact with the product.

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.

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Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Result/Effect	Species/Test system	Source
LC50: 0,46 mg/l (measured)	flow-through test Oncorhynchus mykiss (rainbow trout) (96 h)	test report OECD 203
EC50: > 0,37 mg/l (measured)	static test Daphnia magna (Water flea) (48 h)	test report OECD 202
ErC50: > 0,55 mg/l (measured)	static test Pseudokirchneriella subcapitata (green algae) (95 h)	test report OECD 201
EC10 (Growth rate): 0,14 mg/l (measured)	static test Pseudokirchneriella subcapitata (green algae) (95 h)	test report OECD 201
EC50 (Respiration inhibition): >= 100 mg/l (nominal)	static test activated sludge (3 h)	test report OECD 209
NOEC: >= 0,04 mg/l (measured)	flow-through test Cyprinus carpio (Carp) (56 d)	test report OECD 305
NOEC (reproduction rate): 0,08 mg/l (measured)	semi-static test Daphnia magna (Water flea) (21 d)	test report OECD 211

Isopropanol:

Result/Effect	Species/Test system	Source
LC50: > 9640 mg/l	flow-through test Pimephales promelas (fathead minnow) (96 h)	ECHA
EC50: > 10000 mg/l	static test Daphnia magna (Water flea) (48 h)	ECHA
IC0: 1800 mg/l	static test Scenedesmus quadricauda (Green algae) (7 d)	ECHA

12.2 Persistence and degradability**Assessment:**

For the product as a whole, no test data is available.
Organic solvent: readily biologically degradable.

Data on substances:**Hexamethyldisiloxane:**

The substance is degradable in abiotic processes.

Biodegradation:

Result	Test system/Method	Source
2 % / 28 d Not readily biodegradable.	biological oxygen demand (BOD)	test report OECD 301C

Hydrolysis:

Result	Test system	Source
Half-life: 1,47 h	pH 5; 24,8 °C	test report OECD 111
Half-life: 116 h	pH 7; 24,7 °C	test report OECD 111
Half-life: 12,4 h	pH 9; 24,8 °C	test report OECD 111

Isopropanol:**Biodegradation:**

Result	Test system/Method	Source
readily biodegradable	biological oxygen demand (BOD)	ECHA

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For the product as a whole, no test data is available.

Data on substances:**Hexamethyldisiloxane:**

Under experimental conditions the substance showed an increased potential for bioaccumulation.

Result/Effect	Species/Test system	Source
Bioconcentration factor (BCF): 1290 - 2410	carp (Cyprinus carpio) (70 d; 0,04 mg/l)	no data available
Bioconcentration factor (BCF): 776 - 1660	carp (Cyprinus carpio) (70 d; 0,004 mg/l)	no data available

12.4 Mobility in soil**Assessment:**

No data known.

Data on substances:**Hexamethyldisiloxane:
adsorption - desorption:**

Result	Test system/Method	Source
log K _{oc} : 2,53	Berechnung	no data available

12.5 Results of PBT and vPvB assessment:

No data available.

Data on substances:**Hexamethyldisiloxane:**

The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.

Isopropanol:

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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:**Hexamethyldisiloxane:**

No data available.

Isopropanol:

No data available.

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

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regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information**14.1 - UN number; UN proper shipping name; Transport hazard class(es); Packing group****14.4****Road ADR:**

Valuation:

Dangerous Goods

14.1 UN no.:

1993

14.2 Proper Shipping Name:

Entzündbarer flüssiger Stoff, n.a.g. (Enthält Hexamethyldisiloxan und 2-Propanol)

14.3 Class:

3

14.4 Packaging Group:

II

Railway RID:

Valuation:

Dangerous Goods

14.1 UN no.:

1993

14.2 Proper Shipping Name:

Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)

14.3 Class:

3

14.4 Packaging Group:

II

Transport by sea IMDG-Code:

Valuation:

Dangerous Goods

14.1 UN no.:

1993

14.2 Proper Shipping Name:

Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)

14.3 Class:

3

14.4 Packaging Group:

II

Air transport ICAO-TI/IATA-DGR:

Valuation:

Dangerous Goods

14.1 UN no.:

1993

14.2 Proper Shipping Name:

Flammable liquid, n.o.s. (Contains hexamethyldisiloxane and 2-propanol)

14.3 Class:

3

14.4 Packaging Group:

II

14.5 Environmental hazards

Hazardous to the environment:

yes

Marine Pollutant (IMDG):

yes

14.6 Special precautions for user:

Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

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.

15.2 Details of international registration status

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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 Chemical Substances): 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 WACKER contact for more detailed information.

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.
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.

according 1907/2006/EG, Article 31

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Debubbler-SI

Explanation of the GHS classification code:

Flam. Liq. 2; H225:	Flammable liquids Category 2; Highly flammable liquid and vapour.
Aquatic Acute 1; H400:	Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.
Aquatic Chronic 2; H411:	Long-term (chronic) aquatic hazard Category 2; Toxic to aquatic life with long lasting effects.
Asp. Tox. 2; H305:	Aspiration hazard Category 2; May be harmful if swallowed and enters airways.
Flam. Liq. 2; H225:	Flammable liquids Category 2; Highly flammable liquid and vapour.
STOT SE 3; H336:	Specific target organ toxicity - single exposure Category 3; May cause drowsiness or dizziness.
Eye Irrit. 2A; H319:	Serious eye damage/eye irritation Category 2A; Causes serious eye irritation.
Aquatic Acute 2; H401:	Short-term (acute) aquatic hazard Category 2; Toxic to aquatic life.
Aquatic Chronic 2; H411:	Long-term (chronic) aquatic hazard Category 2; Toxic to aquatic life with long lasting effects.
Acute Tox. 4; H332:	Acute toxicity Category 4; Harmful if inhaled.
Eye Irrit. 2A; H319:	Serious eye damage/eye irritation Category 2A; Causes serious eye irritation.

Classification:	Rationale:
Long-term (chronic) aquatic hazard, Category 2	Calculation method
Flammable liquids, Category 2	On basis of test data.
Serious eye damage/eye irritation, Category 2A	Calculation method
Aspiration hazard, Category 2	Calculation method
Short-term (acute) aquatic hazard, Category 1	Calculation method