

SAFETY DATA SHEET (EC 1907/2006)**Lucitone Digital Fuse™ Step 1 - 3D Tooth Conditioning Agent**

Version: 1.0 / GB
Revision date: -
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Material no.
Specification 187870
VA-Nr 01906948

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Lucitone Digital Fuse™ Step 1 - 3D Tooth Conditioning Agent
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company DeguDent GmbH
Postfach 1364
D-63403 Hanau
Telephone +49 (0)6181/59-5576
Telefax +49 (0)6181/59-5879
Email address SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye irritation	Category 2	H319
Reproductive toxicity	Category 2	H360Df
Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Specific target organ toxicity - single exposure	Category 3	H336
Flammable liquids	Category 2	H225

2.2. Label elements**Labelling as per (EU) 1272/2008**

Statutory basis
Hazard pictograms

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI



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Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H360Df - May damage the unborn child. Suspected of damaging fertility. EUH066 - Repeated exposure may cause skin dryness or cracking.
Precautionary statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 - Use non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Reaction	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. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/ physician if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
Precautionary statement: Storage	P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary statement: Disposal	P501 - Dispose of contents/container according to the local / regional/national/international waste disposal regulations.

2.3. Other hazards

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients**3.1. Substances**

-

3.2. Mixtures**Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

• methyl acetate		>= 50% - <= 80%			
CAS-No.	79-20-9	EC-No.	201-185-2	Category 2	H225
Flammable liquids				Category 2	H319
Eye irritation					

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Specific Target Organ Toxicity - Single exposure	Category 3	H336
• Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide <= 0.5%		
CAS-No. 75980-60-8 EC-No. 278-355-8		
Reproductive toxicity	Category 2	H361f
• tetrahydrofurfuryl methacrylate >= 1% - <= 10%		
CAS-No. 2455-24-5 EC-No. 219-529-5		
Eye irritation	Category 2	H319
Specific target organ toxicity - single exposure	Category 3	H335
Skin irritation	Category 2	H315
• Methacrylic acid <= 0.2%		
CAS-No. 79-41-4 EC-No. 201-204-4		
• 1,6-hexanediol diacrylate >= 5% - <= 15%		
CAS-No. 13048-33-4 EC-No. 235-921-9		

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

Health injuries are not known or expected under normal use.

Pay attention to self-protection.

Move out of dangerous area.

Inhalation

If breathed in, move person into fresh air.

If symptoms persist, call a physician.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes.

In case of complaints: Consult doctor immediately.

Remove and wash contaminated clothing before re-use.

Eye contact

Rinse immediately with plenty of water, also under the eyelids.

Ingestion

Flush mouth immediately, then drink plenty of water, avoid vomiting, consult physician

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

May cause slight irritant effects on skin/eyes.

Allergic reactions

May cause headache and dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Keep away from sources of ignition - No smoking.

Dangerous decomposition products possible.

5.3. Advice for firefighters

Wear personal protective equipment.

wear a self contained respiratory apparatus

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Immediately evacuate personnel to safe areas.
Remove all sources of ignition.
Use only non-sparking tools.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
Wear suitable protective clothing.

6.2. Environmental precautions

Notify responsible authorities in case of gas leakage or if product gets into stretches of water, soil, or drainage systems.

6.3. Methods and material for containment and cleaning up

Collect up material. Transfer into suitable containers for recovery or disposal.

Additional advice

For disposal considerations see section 13.

6.4. Reference to other sections**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid inhalation, ingestion and contact with skin and eyes.
Wear suitable protective clothing.
Avoid inhalation of vapour or mist.
Upon skin contact, wash with plenty of water and soap.
Protect from heat sources, heat and exposure to direct sunlight
Keep away from sources of ignition - No smoking.
Do not use sparking tools.
Ground/bond container and receiving equipment.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

Keep away from flames / sparks, no smoking.

Storage

Store in original container.
Protect from heat and exposure to direct sunlight

German storage class

3 - Flammable liquids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

• methyl acetate			
CAS-No.	79-20-9	EC-No.	201-185-2
Control parameters	200 ppm 616 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	250 ppm 770 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
• Methacrylic acid			
CAS-No.	79-41-4	EC-No.	201-204-4
Control parameters	20 ppm 72 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)

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Control parameters 40 ppm
143 mg/m3

Short Term Exposure Limit (STEL):(EH40
WEL)

8.2. Exposure controls**Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment**Respiratory protection**

If used in accordance with the regulations: No particular protective equipment required., Please note: National regulations.

Hand protection

Wear suitable gloves.

Eye/face protection

Tightly fitting safety goggles

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

Appearance

Form liquid
Colour yellow
physical state liquid

Odour like fruit

Odour threshold: no data available

pH 6.8 - 7.2

Melting point/freezing point -99 °C

Boiling point/range 58 °C

Flash point -13 °C

Evaporation rate 5.3

Flammability (solid, gas) no data available

Lower explosion limit 3.1 %(V)

Related to substance: methyl acetate

Upper explosion limit 16 %(V)

Related to substance: methyl acetate

Vapour pressure 2266.48 hPa (20 °C)

Vapour density no data available

Density no data available

Relative density 0.95 (20 °C)

Water solubility no data available

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Partition coefficient: n-octanol/water no data available
Autoinflammability 501 °C
Viscosity, dynamic no data available
Viscosity, kinematic no data available
Explosiveness Risk of bursting when overheated.

9.2. Other information

Ignition temperature No data available
Metal corrosion no data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further information available

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions include volumetric expansion and a risk of container rupture.
reactions

10.4. Conditions to avoid

Keep away from sources of heat, flames and sparks., Keep away from direct sunlight.

10.5. Incompatible materials

Oxidizing agents, Reducing agents, radical generating substances

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity LD50 rat: > 5000 mg/kg
Related to substance: Hexane-1,6-diol diacrylate

LD50 Rat: > 5000 mg/kg
Related to substance: methyl acetate

LD50 Rat: 120 mg/kg
Related to substance: methacrylic acid

Acute inhalation toxicity LC50 Rat: 7.1 mg/l / 4 h
Related to substance: methacrylic acid

Acute dermal toxicity LD50 Rabbit: > 5000 mg/kg
Related to substance: methyl acetate

LD50 Rabbit: 1000 - 15000 mg/kg
Related to substance: methacrylic acid

LD50 Rabbit: 3600 mg/kg
Related to substance: Hexane-1,6-diol diacrylate

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Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Sensitization	In case of inhalation or skin contact a sensitizing effect can not be excluded.
Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	Assessment: May cause damage to organs through prolonged or repeated exposure.
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	Did not show mutagenic effects in animal experiments.
Further information	May cause eye and skin irritation.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 Fathead minnow: 320 mg/l / 96 h Related to substance: methyl acetate
	LC50 Danio rerio (zebra fish): 250 - 350 mg/l / 96 h Related to substance: methyl acetate
	LC50 Fish: 34.7 mg/l / 96 h Related to substance: Hexane-1,6-diol diacrylate
chronic toxicity in daphnia	EC50 Daphnia magna (Water flea): 1026 mg/l / 48 d Test substance: methyl acetate
	EC50 Daphnia magna (Water flea): 2.6 mg/l / 48 d Test substance: Hexane-1,6-diol diacrylate

12.2. Persistence and degradability

Biodegradability	Readily biodegradable. Related to substance: methyl acetate
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12.3. Bioaccumulative potential

Bioaccumulation	no data available
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12.4. Mobility in soil

Mobility	no data available
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12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

Further Information	no data available
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SECTION 13: Disposal considerations

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**13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information**Transport on land (ADR/RID/GGVSEB)**

- 14.1. UN number: UN 1231
14.2. UN proper shipping name: METHYL ACETATE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
ADR: Tunnel Restriction Code: (D/E)
ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB

Inland waterway transport (ADN/GGVSEB (Germany))

- 14.1. UN number: UN 1231
14.2. UN proper shipping name: METHYL ACETATE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1231
14.2. UN proper shipping name: Methyl acetate
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: ERG-Code 3H
IATA-P: ERG-Code 3H

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 1231
14.2. UN proper shipping name: METHYL ACETATE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No
EmS: F-E,S-D

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

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**SECTION 16: Other information****Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)**

Classification	Classification procedure
Eye Irrit., 2 , H319 Repr., 2 , H360Df Skin Irrit., 2 , H315 Skin.sens., 1 , H317 STOT SE, 3 , H336 Flam. Liq., 2 , H225	

Relevant H phrases from chapter 3

H225 : Highly flammable liquid and vapour.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H361f : Suspected of damaging fertility.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism

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IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Lucitone Digital Fuse™ Step 2 - 3D Denture Bonding Resin
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company DeguDent GmbH
Postfach 1364
D-63403 Hanau
Telephone +49 (0)6181/59-5576
Telefax +49 (0)6181/59-5879
Email address SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious eye damage	Category 1	H318
Chronic aquatic toxicity	Category 2	H411
Skin Sensitisation	Category 1B	H317
Reproductive toxicity	Category 2	H361

2.2. Label elements**Labelling as per (EU) 1272/2008**

Hazard pictograms



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Signal word	Warning
Hazard statement	H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statement: Prevention	P201 + P202 - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection.
Precautionary statement: Reaction	P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/ physician. P391 - Collect spillage.
Precautionary statement: Storage	P405 - Store locked up.
Precautionary statement: Disposal	P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.1. Substances**

-

3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• Organic Methacrylate Monomer	>= 40% - <= 50%		
Reproductive toxicity		Category 1	H361
Chronic aquatic toxicity		Category 2	H411
Skin Sensitisation		Category 1	H317
• Photoinitiator	<= 1.5%		
Reproductive toxicity		Category 2	H361
• Organic Acrylate Monomer	>= 1% - <= 5%		
Serious eye damage		Category 1	H318
Skin Sensitisation		Category 1	H317
Chronic aquatic toxicity		Category 2	H411
• Methacrylic acid	<= 1%		
Skin corrosion		Sub-category 1A	H314
Acute toxicity (Dermal)		Category 4	H312
Acute toxicity (Oral)		Category 4	H302

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

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4.1. Description of first aid measures

Avoid contact with skin, eyes and clothing.
May cause eye and skin irritation.
Call a physician immediately.

Inhalation

Move victims into fresh air.
Do not leave victims unattended.
If symptoms persist, call a physician.

Skin contact

Flush skin with large amounts of water. If irritation develops and persists, get medical attention.
Remove and wash contaminated clothing before re-use.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.
Remove contact lenses.
If symptoms persist, call a physician.

Ingestion

Do not induce vomiting
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.
If feeling unwell seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

Irritant effect on eyes and skin
Allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, water spray or fog.
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Danger of decomposition under influence of heat.
danger of polymerisation

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.
Fire residues should be disposed of in accordance with the regulations.
In case of fire cool containers or take them to a safe place.
In the event of fire, wear self-contained breathing apparatus.
Wear personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.
Do not breathe vapours or spray mist.
Wear suitable protective clothing.

6.2. Environmental precautions

Introduction into soil, natural water bodies or sewerage must be prevented.

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6.3. Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal.

Additional advice

For disposal considerations see section 13.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation, ingestion and contact with skin and eyes.

Wear suitable protective clothing.

Avoid inhalation of vapour or mist.

Upon skin contact, wash with plenty of water and soap.

Protect from heat sources, heat and exposure to direct sunlight

Do not allow containers and vessels to stand open

Follow all SDS/label precautions even after container is emptied because it may retain product residues.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from flames / sparks, no smoking.

Storage

Keep in a cool place away from oxidizing agents.

Product and packaging should not be exposed to direct sunlight or UV light during storage.

Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions.

German storage class

12 - Non Combustible Liquids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

• Methacrylic acid		
CAS-No.		
Control parameters	20 ppm 72 mg/m ³	Time Weighted Average (TWA):(EH40 WEL)
Control parameters	40 ppm 143 mg/m ³	Short Term Exposure Limit (STEL):(EH40 WEL)

8.2. Exposure controls

Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment

Respiratory protection

In case of melting, soldering or grinding:, wear a self contained respiratory apparatus, Please note: National regulations.

Hand protection

Wear suitable gloves.

Eye/face protection

Tightly fitting safety goggles

Hygiene measures

Observe the rules usually applicable when handling chemicals.

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

Appearance	
Form	liquid
Colour	pink
physical state	liquid
Odour	characteristic
Odour threshold:	no data available
pH	no data available
Melting point/freezing point	no data available
Boiling point/range	no data available
Flash point	> 93 °C
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Vapour density	no data available
Density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Autoinflammability	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Explosiveness	no data available

9.2. Other information

Ignition temperature	no data available
Metal corrosion	no data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

no data available

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**10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Polymerisation can occur., Polymerisation occurs when exposed to white light, ultraviolet light or heat.

10.4. Conditions to avoid

sun rays, heat, heat effect

10.5. Incompatible materials

Oxidizing agents, Strong reducing agents, radical generating substances

10.6. Hazardous decomposition products

carbon monoxide, carbon dioxide, Methacrylate

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 2000 mg/kg LD50 Rat: > 5000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg LD50 Rat: 500 mg/kg
Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Sensitization	May cause allergic skin reaction.
Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	no data available
Risk of aspiration toxicity	No aspiration toxicity classification
Toxicity to reproduction	Experiments involving rats and mice revealed evidence of reduced reproductive capacity.
Further information	May cause eye and skin irritation.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 Leuciscus idus: 10 mg/l / 96 h EC50 Daphnia magna: 1.21 mg/l / 48 h
Toxicity to algae	ErC50 Desmodesmus subspicatus: 2.28 mg/l / 72 h

12.2. Persistence and degradability

Biodegradability	Not readily biodegradable.
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**12.3. Bioaccumulative potential**

Bioaccumulation no data available

12.4. Mobility in soil

Mobility no data available

12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

Further Information Do not allow to enter waste water drains, watercourse or soil., May cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information

Not dangerous according to transport regulations.

- 14.1. UN number: --
14.2. UN proper shipping name: --
14.3. Transport hazard class(es): --
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
Not dangerous according to transport regulations., The Transport takes place according to special provision 375 ADR/RID/ADN (2015), subsection 2.10.2.7 of IMDG-Code (37. Amdt.) and special provision A197 of IATA-DGR (56th Edition), in packages of not more than 5 L / 5 Kg.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

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**SECTION 16: Other information****Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)**

Classification	Classification procedure
Eye Dam., 1 , H318 Aquatic Chronic, 2 , H411 Skin.sens., 1B , H317 Repr., 2 , H361	

Relevant H phrases from chapter 3

H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H361 : Suspected of damaging fertility or the unborn child.
H411 : Toxic to aquatic life with long lasting effects.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization

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IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Lucitone Digital Fuse™ Step 3 – 3D Sealer
 REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company DeguDent GmbH
 Postfach 1364
 D-63403 Hanau
 Telephone +49 (0)6181/59-5576
 Telefax +49 (0)6181/59-5879
 Email address SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Serious eye damage	Category 1	H318
Reproductive toxicity	Category 2	H361
Chronic aquatic toxicity	Category 3	H413
Flammable liquids	Category 2	H225
Acute aquatic toxicity	Category 3	H412

2.2. Label elements**Labelling as per (EU) 1272/2008**

Statutory basis
 Hazard pictograms

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI



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Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H361 - Suspected of damaging fertility or the unborn child if inhaled. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statement: Prevention	P201 + P202 - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement: Reaction	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P363 - Wash contaminated clothing before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/ physician. P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist for extinction.
Precautionary statement: Storage	P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary statement: Disposal	P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards**SECTION 3: Composition/information on ingredients****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

• methyl methacrylate		>= 40% - <= 50%	
CAS-No.	80-62-6	EC-No.	201-297-1
Flammable liquids		Category 2	H225
Skin corrosion/irritation		Category 2	H315
Skin Sensitisation		Category 1	H317
Specific Target Organ Toxicity - Single exposure (inhalation)		Category 3	H335
• Tris (2-hydroxy ethyl) isocyanurate triacrylate		>= 30% - <= 35%	
CAS-No.	40220-08-4	EC-No.	254-843-6
• Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		>= 1% - <= 4%	
CAS-No.	75980-60-8	EC-No.	278-355-8
Reproductive toxicity		Category 2	H361f

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Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Health injuries are not known or expected under normal use.
Pay attention to self-protection.
Move out of dangerous area.

Inhalation

Not required
If breathed in, move person into fresh air.
If symptoms persist, call a physician.

Skin contact

Upon skin contact, wash with plenty of water and soap.
In the case of skin irritation or allergic reactions see a physician.
Remove and wash contaminated clothing before re-use.

Eye contact

Immediately flush eye(s) with plenty of water.

Ingestion

Flush mouth immediately, then drink plenty of water, avoid vomiting, consult physician

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

Allergic reactions
Health injuries may be delayed.
May cause harm to the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed

When eyes are affected, seek ophthalmologist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

product is highly flammable.
Gases and vapours are heavier than air and accumulate in low-lying areas
Closed container may rupture if strongly heated.
May be released in case of fire: toxic gases/vapours.

5.3. Advice for firefighters

Wear personal protective equipment.
Wear a positive-pressure supplied-air respirator with full facepiece.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas.
Remove all sources of ignition.
Use only non-sparking tools.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
Wear suitable protective clothing.

6.2. Environmental precautions

Discharge into the environment must be avoided., If the product contaminates rivers and lakes or drains inform respective authorities.

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6.3. Methods and material for containment and cleaning up

Collect up material. Transfer into suitable containers for recovery or disposal.
Then flush with water.
No sparking tools should be used.

Additional advice

For disposal considerations see section 13.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation, ingestion and contact with skin and eyes.
Wear suitable protective clothing.
Do not inhale exhaust fumes, vapors, sprays or aerosols.
Upon skin contact, wash with plenty of water and soap.
Do not smoke.
Do not allow containers and vessels to stand open

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from flames / sparks, no smoking.

Storage

Store in original container.
Protect from heat and exposure to direct sunlight

German storage class

3 - Flammable liquids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

• methyl methacrylate			
CAS-No.	80-62-6	EC-No.	201-297-1
Control parameters	100 ppm 416 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)

8.2. Exposure controls

Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery., Explosion-proof installations required.

Personal protective equipment

Respiratory protection

If used in accordance with the regulations: No particular protective equipment required., Please note: National regulations.

Hand protection

Wear suitable gloves.

Eye/face protection

recommended, Tightly fitting safety goggles

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

Appearance		
Form	liquid	
Colour	yellow	
physical state	liquid	
Odour	characteristic	
Odour threshold:	0.21 ppm	
pH	no data available	
Melting point/range	no data available	
Boiling point/range	100 °C	
Flash point	13 °C	
Evaporation rate	no data available	
Flammability (solid, gas)	no data available	
Lower explosion limit	2.1 %(V)	
Upper explosion limit	12.5 %(V)	
Vapour pressure	4666.28 hPa	(20 °C)
Vapour density	no data available	
Density	no data available	
Relative density	1.1	(20 °C)
Water solubility	negligible	
Partition coefficient: n-octanol/water	no data available	
Autoinflammability	435 °C	
Viscosity, dynamic	no data available	
Viscosity, kinematic	no data available	
Explosiveness	Risk of bursting when overheated.	

9.2. Other information

Ignition temperature	no data available
Metal corrosion	no data available

SECTION 10: Stability and reactivity

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**10.1. Reactivity**

Polymerisation can occur.

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous polymerisation may occur.

10.4. Conditions to avoid

Keep away from sources of heat, flames and sparks., Keep away from direct sunlight.

10.5. Incompatible materials

Strong reducing agents, radical generating substances, Oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

no data available

Acute oral toxicity	LD50 Oral Rat: 78800 mg/kg Related to substance: methyl methacrylate
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / 4 h Related to substance: methyl methacrylate
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Related to substance: methyl methacrylate
Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Sensitization	In case of inhalation or skin contact a sensitizing effect can not be excluded.
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	Mutagenicity: In vitro examinations (micro-organisms, cell cultures) show overwhelmingly negative results, literature., Not mutagenic in Ames Test.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish LC50 Pimephales promelas (fathead minnow): 130 mg/l / 96 h

Toxicity to algae EC50 algae: 170 mg/l / 48 h

12.2. Persistence and degradability

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Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation No significant bioaccumulation.

12.4. Mobility in soil

Mobility If the product penetrates the soil it will become mobile and might pollute the groundwater.

12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

Further Information Do not allow to enter waste water drains, watercourse or soil., Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information**Transport on land (ADR/RID/GGVSEB)**

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
ADR: Tunnel Restriction Code: (D/E)
ADR: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied., Observe listed materials regulation §35, paragraph 1 GGVSEB
RID: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.

Inland waterway transport (ADN/GGVSEB (Germany))

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: Methyl methacrylate monomer, stabilized solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II

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- 14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: ERG-Code 3L
IATA-P: ERG-Code 3L

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
EmS: F-E,S-D
Clear of living quarters.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

SECTION 16: Other information**Relevant H phrases from chapter 3**

H225 : Highly flammable liquid and vapour.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H335 : May cause respiratory irritation.
H361f : Suspected of damaging fertility.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM American Society for Testing and Materials
ATP Adaptation to Technical Progress
BCF Bioconcentration factor

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BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization