

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 1/11

KERALIT ® HUFFESTIGER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

KERALIT ® HUFFESTIGER

UFI:

D600-606D-A00J-5AK0

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

Use of the substance/mixture:

Relevant identified uses : Pflegeprodukte für Pferde
/ care products for horses

Uses advised against Nicht am Menschen anwenden. / Do not use on humans.

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Keralit ® Veterinär- und Pferdetechnik GmbH

Brenntenhau 1
71106 Magstadt

Telephone: +49 7159 42848

Telefax: +49 7159 42701

E-mail: keralit@aol.com

E-mail (competent person): keralit@aol.com

1.4. Emergency telephone number

DI RUFF Florian - +49 7159 42848, 24h: 030 30686700 (Giftnotruf der Charité - Universitätsmedizin Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 2/11

KERALIT® HUFFESTIGER

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:

glutaral; propan-2-ol

Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Precautionary statements

P102	Keep out of reach of children.
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Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER.
P363	Wash contaminated clothing before reuse.

Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3. Other hazards

Adverse physicochemical effects:

No information available.

Adverse human health effects and symptoms:

No information available.

Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Other adverse effects:

No information available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3








Page 3/11

KERALIT® HUFFESTIGER

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 7784-13-6	ALUMINIUMCHLORID HEXAHYDRAT Eye Irrit. 2 (H319), Skin Irrit. 2 (H315)  Warning	> 1 - ≤ 10 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)   Danger	> 1 - ≤ 10 weight-%
CAS No.: 111-30-8 EC No.: 203-856-5 Index No.: 605-022-00-X	glutaral <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Acute Tox. 2 (H330), Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Resp. Sens. 1 (H334), STOT SE 3 (H335), Skin Corr. 1B (H314), Skin Sens. 1A (H317)     Danger EUH071 M-factor (acute): 1 Specific concentration limit (SCL) STOT SE 3; H335: 0.5% ≤ C < 5%	> 1 - ≤ 5 weight-%

Full text of H- and EUH-phrases: see section 16.

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 immediately (show the label where possible).

Following inhalation:

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

Following ingestion:

If swallowed, seek medical advice immediately and show this container or label.

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

No information available.

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

Zubereitung enthält Glutaraldehyd als Wirkstoff

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water

Carbon dioxide (CO₂)

Extinguishing powder

ABC-powder

Unsuitable extinguishing media:

no restriction

5.2. Special hazards arising from the substance or mixture

not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 4/11

KERALIT ® HUFFESTIGER

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear personal protection equipment.
See protective measures under point 7 and 8.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.
Wash with plenty of water.

6.4. Reference to other sections

No data available

6.5. Additional information

Eliminate leaks immediately.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Fire prevent measures:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep/Store only in original container.
Keep container tightly closed.
Ensure adequate ventilation of the storage area.

Hints on storage assembly:

none

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store small packages in a suitable, robust cabinet.

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 5/11

KERALIT® HUFFESTIGER

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE) from 7 Jun 2017	glycerol CAS No.: 56-81-5 EC No.: 200-289-5	① 200 mg/m ³ ② 400 mg/m ³ ⑤ (einatembare Fraktion) DFG, Y
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³) ⑤ DFG, Y
TRGS 900 (DE)	glutaral CAS No.: 111-30-8 EC No.: 203-856-5	① 0.05 ppm (0.2 mg/m ³) ② 0.1 ppm (0.4 mg/m ³) ⑤ AGS, Sah, Y

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
TRGS 903 (DE) from 1 Nov 2012	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE) from 1 Nov 2012	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

It is recommended to design all work processes always so that the following is excluded:

Skin contact

Eye contact

Inhalation

8.2.2. Personal protection equipment

Eye/face protection:

Tightly sealed safety glasses.

Skin protection:

Avoid contact with eyes and skin.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 6/11

KERALIT® HUFFESTIGER

Hand protection: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time: > 480 min

Respiratory protection:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Filtertypen: A, B, E, K. Klasse 1: Höchstzulässige Schadstoffkonzentration in der Atemluft = 1000 ml/m³ (0,1 Vol.-%); Klasse 2 = 5000 ml/m³ (0,5 Vol.-%); Klasse 3 = 10000 ml/m³ (1,0 Vol.-%).

Other protection measures:

Protective clothing: Apron

General health and safety measures: Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	3.3	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		② von 'ca.100' bis ''
Decomposition temperature	<i>not determined</i>		
Flash point	> 65 °C		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		① not determined
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not determined</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		① not determined
Dynamic viscosity	<i>not determined</i>		① not determined
Kinematic viscosity	<i>not determined</i>	40 °C	

9.2. Other information

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 7/11

KERALIT® HUFFESTIGER

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Alkali (lye), concentrated

Acid, concentrated

Amines

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

Stable under normal use conditions.

SECTION 11: Toxicological information

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

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD₅₀ oral: 5,045 mg/kg (Rat) Source: RTECS
LD₅₀ dermal: 12,800 mg/kg (Rabbit) Source: RTECS
LC₅₀ Acute inhalation toxicity (gas): 72.6 mg/L (Rat) Source: IUCLID
glutaryl CAS No.: 111-30-8 EC No.: 203-856-5
LD₅₀ oral: 77 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >0.56 - 0.78 mg/L 4 h (Rat)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Irritating to skin.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause sensitization by inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

May cause respiratory irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 8/11

KERALIT® HUFFESTIGER

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

Other information:

Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no component meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Harmful to aquatic life.

12.2. Persistence and degradability

Additional information:

No information available.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No adsorption in soil or sediment.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no component meets the criteria.

12.7. Other adverse effects

Chemical oxygen demand (COD): No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Vorschlagsliste für Abfallschlüssel/Abfallbezeichnungen gemäß AVV:

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 08 *	discarded organic chemicals consisting of or containing hazardous substances
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*: Evidence for disposal must be provided.

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 9/11

KERALIT® HUFFESTIGER

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

5 MuSchRiV.

22 JArbSchG.

4 MuSchRiV.

Störfallverordnung (12. BlmschV)

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

3 - highly hazardous to water

Source:

S Selbsteinstufung

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 10/11

KERALIT® HUFFESTIGER

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
COD	Chemical Oxygen Demand
CSB	Chemical Oxygen Demand
DNEL	derived no-effect level
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform Chemical Information Database
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

REACH Dissemination Portal

<https://echa.europa.eu/de/information-on-chemicals/registered-substances>

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1A</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jul 2023

Print date: 28 Jul 2023

Version: 3

Page 11/11

KERALIT ® HUFFESTIGER

Hazard statements

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information

EUH071	Corrosive to the respiratory tract.
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16.6. Training advice

No data available

16.7. Additional information

This Safety Data Sheet was drawn up by TÜV SÜD Industrie Service GmbH (see below), based on data from the supplier, who is named in section 1 and who is responsible for this document.

TÜV SÜD Industrie Service GmbH
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