



Test Laboratuvarları

LVT Test Laboratuvarları Ltd. Şti.

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AB-0341-T
22-806-R0-N1-1
04-22

1/17

DENEY RAPORU

Test Report

Müşteri Client	: TAMER ELEKTRİK İMALAT SANAYİ ve TİCARET LTD. ŞTİ.
Adres Address	: İST. YOLU 26.KM SARAY MAH. SARAY CAD. NO:4 SARAYKÖY MEVKİ KAHRAMANKAZAN/ANKARA
İmalatçı Manufacturer	: TAMER ELEKTRİK İMALAT SANAYİ ve TİCARET LTD. ŞTİ.
Deney Numunesi Test Sample	: M.V. BUSHING COVER (TBK02)
Marka Trade Mark	: TAMFLEX
Deney Metodu Test Method	: IEC 60243-1:2013
Deney Tarihi Date of Test	: 21.03.2022
Toplam Sayfa Sayısı Total Number of Pages	: 17
Basım Tarihi Date of Issue	: 07.04.2022

Deney laboratuvarı olarak faaliyet gösteren LVT Test Laboratuvarları Ltd. Şti. TÜRKAK' tan AB-0341-T numarası ile IEC/ISO TS EN 17025:2017 standardına göre akredite edilmiştir.

LVT Test Laboratuvarları Ltd. Şti. accredited by TÜRKAK under registration number AB-0341-T for IEC/ISO 17025:2017 as test laboratory.

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Deney ve / veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (talep halinde) ve deney metodları, bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and / or measurements results, the uncertainties (if required) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür
Seal



Deney Sorumlusu
Person in Charge of Test

Bahadır ÇELİK

Genel Müdür
General Manager

Ata Gürül ARSLANLI



Rapor detaylarını karekod ile kontrol edebilirsiniz.
You can check the report details via QR code.

Bu rapor, Laboratuvarımızın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

İmzasız ve mühürsüz raporlar geçersizdir.

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Testing reports without signature and seal are not valid.

FRT.31/Rev05/0620

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1. Numunelerin Tanımı Definition of the Samples

M.V. BUSHING COVER (TBK02)

1.1 M.V. BUSHING COVER (TBK02)

(22-806-R0-N1)

Numune Kabul Tarihi Receiving Date	:	16.03.2022
Numune Seri No Serial No	:	Test Sample
Beyan Gerilimi Rated Insulation Voltage	U_n	: 36 kV / 1 min
Beyan Frekans Rated Frequency	f_n	: 50 Hz
Numune Boyutları Dimensions of the Sample	mm	: Bkz. Sayfa; 9 See Page
Boya – Kaplama Özellikleri Paint – Coating Properties	:	-
Malzeme Özellikleri Material Properties	:	Bkz. Sayfa; 10-17 See Page

2. Deney Sonuçları Test Results

Deney sonuçları, müşteri tarafından laboratuvara teslim edilen ve sadece deneyi yapılan numuneye aittir.
The test results only belong to the tested sample(s) delivered to the laboratory by client.

Numune Sample	Uygulanan Deney Applied Test	Sonuç Result
M.V. BUSHING COVER (TBK02)	Dielectric Test	PASSED

3. Çevre Şartları Environmental Conditions

3.1 Ortam Sıcaklığı
Ambient Temperature : (21,2±3) °C

3.2 Ortam Nemi
Ambient Humidity : (34,9±3) %Rh

4. Deney Metodundan Sapma, Ekleme ve Çıkarmalar

4. Deviasyonlar, Eklemeler ve Çıkarmalar : Deneyler; standart deney metoduna göre uygulanmıştır.
Tests were made according to the clauses of the relevant standards.

5. Şartnamelere Uygunluk (Gerekli Hallerde)
Conformity to Specifications (If Necessary) : -

6. Dağıtım Bilgileri Distribution Information

6. Dağıtım Bilgileri : TAMER ELEKTRİK İMALAT SANAYİ ve TİCARET LTD. ŞTİ.

7. Açıklama Explanation

7. Açıklama : -



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8. **Ölçüm Belirsizliği** : -
Uncertainty of Measurement

Beyan edilen genişletilmiş ölçüm belirsizliği, standart belirsizliğin k=2 olarak alınan genişletme katsayısı ile çarpımı sonucunda bulunan değerdir ve % 95 oranında güvenilirlik sağlamaktadır.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2 which for a normal distribution corresponds to a coverage probability of approximately 95 %.





Dielektrik Deneyleri

Dielectric Tests

Test Laboratuvarları

9. Deney Uygulamaları:

Test Applications

9.1 Dielektrik Deneyi

Dielectric Test

Deney Tarihi Test Date	:	21.03.2022
Numune No Sample No	:	22-806-R0-N1
Deney Gerilimi Test Voltage	:	36 kV
Dayanım Gerilimi Withstand Voltage	:	40 kV / 3 min
Ortam Sıcaklığı & Nemi Ambient Temperature & Humidity	:	21,2 °C – 34,9 %Rh
Rakım Altitude	:	780 m
Açıklama Explanation	:	

Before the test, the samples were conditioned for 24 hours at (23±2) °C under (50±5) % relative humidity as specified in the IEC 60243-1:2013 standard. Mains frequency test voltage was applied to the test sample, whose surfaces were cleaned with a dry cloth, according to the table below.

The test voltage was applied as 36 kV / 1 min and the measured leakage current level is given in the table below.

Then, the test voltage with mains frequency was increased to the test sample in 1 kV/min steps, the test voltage was increased up to 40 kV and the test frequency was applied as 50 Hz for 3 minutes. The test content is detailed in the table below.

Application	Voltage Section	Grounded Section	Applied Voltage (kV)	Test Time (sec)	Leakage Current (mA)	Result
Application 1 See. Page 7	Sample Side Center Point(Inner)	Sample Side Center Point (Outside)	36 kV	60 sec	0,4 mA	no destructive discharge
Application 1 See. Page 7	Sample Side Center Point(Inner)	Sample Side Center Point (Outside)	40 kV	180 sec	0,6 mA	no destructive discharge
Application 2 See. Page 7	Sample Side Center Point(Inner)	Fold Point (Outside))	36 kV	60 sec	0,4 mA	no destructive discharge
Application 2 See. Page 7	Sample Side Center Point(Inner)	Fold Point (Outer)	40 kV	180 sec	0,5 mA	no destructive discharge
Application 3 See. Page 8	Sample Side Center Point(Inner)	Bolt Hole Near (Inner)	36 kV	60 sec	0,4 mA	no destructive discharge
Application 3 See. Page 8	Sample Side Center Point(Inner)	Bolt Hole Near (Inner)	40 kV	180 sec	0,5 mA	no destructive discharge





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Dielectric Tests

10. Deney ve Ölçüm Bilgileri:

Test and Measuring Arrangement

Cihaz <i>Device</i>	İmalatçı <i>Manufacturer</i>	Seri No. / Kod <i>Serial No / Code</i>	Sertifika No <i>Certificate No</i>	Kalibrasyon Bitiş Tarihi <i>Calibration Due Date</i>
Digital Barometer	D-97877	LC165	31402	February /2023
Digital caliper	ACCUD	LC365	6212	January /2023
Steel ruler	MAS	LC443	200602	October /2023
High Voltage Tester	FINE UNITY	LC55	13702	February /2023
Humidity Temperature Data Logger	CEM	LC368	6218	January /2023

11. Deney Osilogramları: -

Test Oscillograms

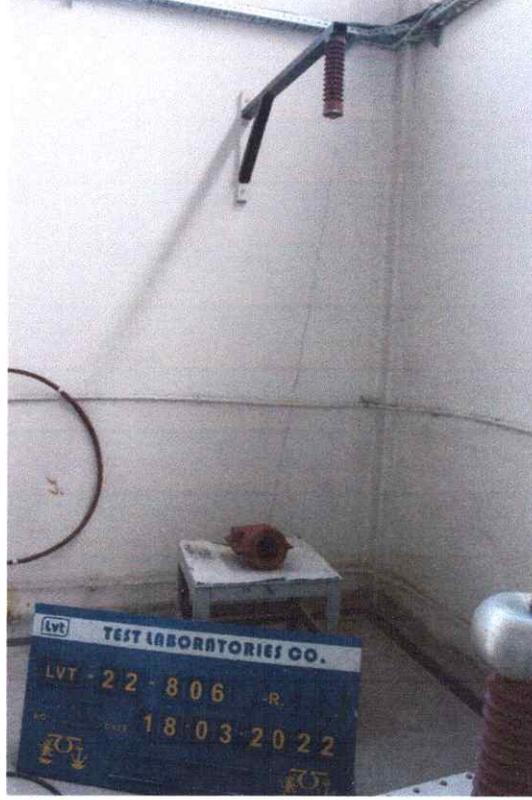




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Dielektrik Deneyleri Dielectric Tests

12. Deney Fotoğrafları: Test Photographs



Application 1

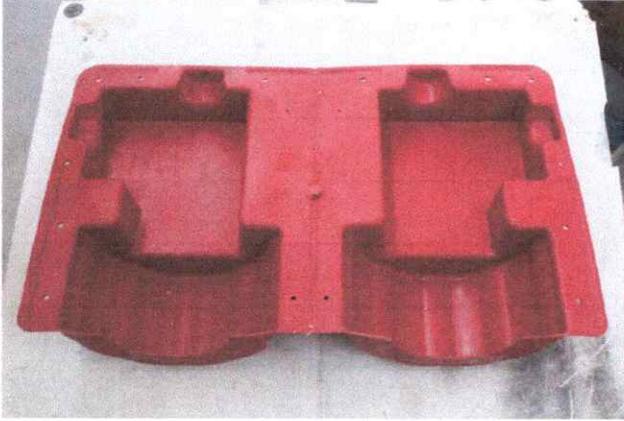


Application 2





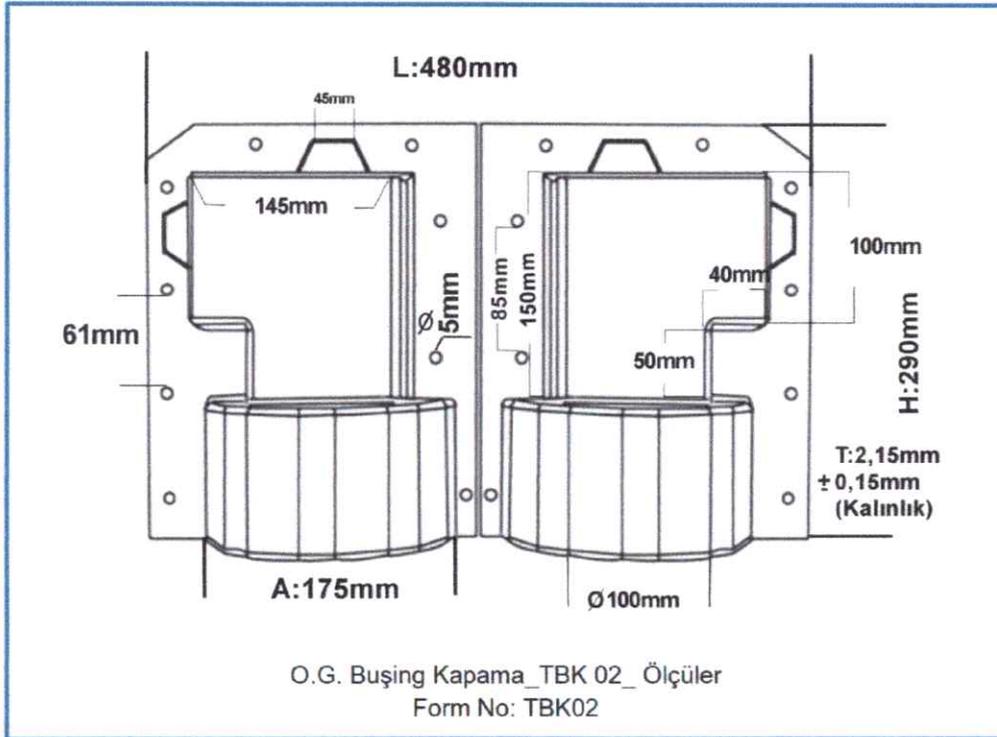
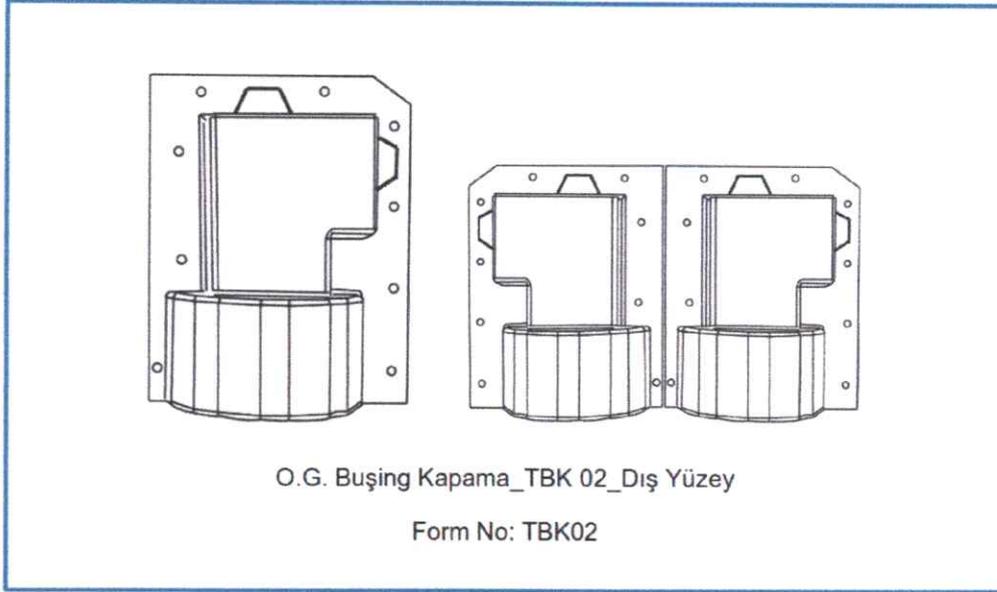
Application 3
Dielectric Test



Test Sample Image

13. Firma Dokümanları:
Documentation of Client

	TAMER ELEKTRİK İML. SAN. TİC. LTD.ŞTİ.	F.KY.27/00
	OG Buşing Kapama-TBK-02 Teknik Çizim	





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Dielektrik DeneYleri

Dielectric Tests



MV Bushing Cover

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Reference number: SDS-26032021-1
Issue date: 3/26/2021 Version: 1.0

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

1.1. Product identifier

Product form : Article
Product name : MV Bushing Cover
Product code : TBK-02

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : Machinery, mechanical appliances, electrical/electronic articles

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

TAMER ELEKTRİK İMALAT SAN. VE TİC. LTD. ŞTİ.
İstanbul Yolu 26. Km No: 13
Kahramankazan
Ankara - TÜRKİYE
T +90 312 815 44 74
tamer@tamerelektrik.com.tr - www.tamerelektrik.com.tr

1.4. Emergency telephone number

Emergency number : +90 312 815 44 74

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Precautionary measures fire	: Approach from upwind. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible materials : Extremely high or low temperatures. Strong acids. Strong bases. Strong oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Not required for normal conditions of use. Use splash goggles when eye contact due to splashing is possible

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Does not require any particular or specific measures. Respect the general rules for occupational hygiene. In case of repeated or prolonged contact wear gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Colour	: Orange.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified





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Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

MV Bushing Cover	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable





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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

Inland waterway transport
Not applicable

Rail transport
Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG) : Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Storage class (LGK, TRGS 510)	: LGK 13 - Non-combustible solids



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Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4 1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4 1A, LGK 5.1C

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Netherlands

ABM category

: Not determined

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS-No.	Chemical Abstract Service number
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS	Chemical Abstracts Service (division of the American Chemical Society)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration



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Abbreviations and acronyms	
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
Pow (log)	n-octanol/water partition coefficient
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources : ECHA (European Chemicals Agency), Supplier's safety documents, Classification according to Regulation (EC) No. 1272/2008 [CLP].

Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

