

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Version: 4.1 Revision date: 09.01.2023 Replaces version: 4 from: 24.11.2022

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

#### 1.1. Product identifier

## audioprint GR-12.1

**UFI** R38T-JP31-D01E-KGR0

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

Relevant identified uses: Manufacture

**Uses advised against:** Private households (= general public).

1.3. Details of the supplier of the safety data sheet

Manufacturer

pro3dure medical GmbH **Telephone** +49 (0)2374 920050-10

Am Burgberg 13 **Telefax:** +49 (0)2374 920050-50

D 58642 Iserlohn

**Supplier** 

Pro3dure medical GmbH Telephone +49 (0)2374 920050-10

Am Burgberg 13 **Telefax:** +49 (0)2374 920050-50

D 58642 Iserlohn

Information contact

pro3dure medical GmbH Information telephone +49 (0)2374 920050-10

Information telefax +49 (0)2374 920050-50 E-mail (competent person) info@pro3dure.com

Websité www.pro3dure.com

1.4. Emergency telephone number

pro3dure medical GmbH Telephone +49 (0)2374 920050-10

This number is serviced during office hours.

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:

Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1/1A/1B, H317; Aquatic Chronic 2, H411

2.2. Label elements

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

**Hazard pictograms** 

GHS05,GHS09

Signal word: Danger

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#### **Hazard statements:**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of water/soap.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see information on this label).
P332+313 If skin irritation occurs: Get medical advice/attention.
P362+364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/container according to official regulations.

#### Special labelling of particular preparations:

none

#### 2.3. Other hazards

No risks worthy of mention.

## **SECTION 3: Composition / information on ingredients**

## 3.1. Substances

not applicable

#### 3.2. Mixtures

Mixture with, among others, the following ingredients and other non-hazardous admixtures

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Tricyclo[5.2.1.0(2,6)]deca n dimethanol diacrylate	42594-17-2	01-2120051112- 76-XXXX	60-80 %	Skin Sens. 1/1A/1B, H317; Aquatic Chronic 2, H411	M = 1 ATE (dermal) = >2000 mg/kg ATE (oral) = >2000 mg/kg ATE (inhalativ) = Kein Wert ermittelbar
3,6,9- trioxaundecamethylenedi methacrylate	109-17-1		10-20 %	Skin Irrit. 2, H315; Eye Irrit. 2, H319	M = 0 ATE (dermal) = 3000 mg/kg bw ATE (oral) = 5000 mg/kg bw ATE (inhalativ) = Kein Wert ermittelbar
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	01-2119490003- 49	10-20 %	Skin Sens. 1/1A/1B, H317; Eye Dam. 1, H318; Aquatic Chronic 2, H411	M = 1 ATE (dermal) = >2000 mg/kg ATE (oral) = >2000 mg/kg ATE (inhalativ) = >5 mg/l
Phenyl-bis(2,4,6- trimethylbenzoyl)phosphin e oxide	162881-26-7		≤ 02 %	Skin Sens. 1/1A/1B, H317; Aquatic Chronic 4, H413	M = 0 ATE (dermal) = 2000 mg/kg ATE (oral) = 2000 mg/kg ATE (inhalativ) = Kein Wert ermittelbar
Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	75980-60-8		≤ 02 %	Repr. 2, H361; Skin Sens. 1/1A/1B, H317; Aquatic Chronic 2, H411	M = 0 ATE (dermal) = 2000 ATE (oral) = 5000 ATE (inhalativ) = 2000

(Full text of H- and EUH-statements: see section 16.)

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#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General information: Remove contaminated, saturated clothing immediately. When in doubt or if

symptoms are observed, get medical advice. If unconscious place in recovery

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position and seek medical advice.

In case of inhalation: Following skin

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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

**contact:** 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.

After ingestion: Rinse mouth immediately and drink plenty of water. No administration in cases of

unconsciousness or cramps. Do NOT induce vomiting. Call a physician

immediately.

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

May cause sensitization by skin contact.

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

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable ABC-powder BC-powder alcohol resistant foam Carbon dioxide (CO2)

extinguishing media

Unsuitable Water spray jet Excess water Full water jet Strong water jet

extinguishing media

#### 5.2. Special hazards arising from the substance or mixture

In case of fire: Wear self-contained breathing apparatus. Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.3. Advice for firefighters

#### **General information**

Do not inhale explosion and combustion gases. Co-ordinate fire-fighting measures to the fire surroundings.

#### Special protective equipment for fire-fighters:

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

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Remove all sources of ignition. Remove persons to safety. Wear personal protection equipment. Special danger of slipping by leaking/spilling product. See protective measures under point 7 and 8.

## 6.2. Environmental precautions

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

## 6.3. Methods and material for containment and cleaning up

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

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## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin and eyes.

#### Precautions against fire and explosion:

Usual measures for fire prevention.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against: UV-radiation/sunlight

#### Hints on joint storage

Do not store together with: Oxidizing agent Organic peroxides. Keep away from food, drink and animal feedingstuffs.

## 7.3. Specific end use(s)

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## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

occupational exposure limit value

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Substance:	CAS-No.:	Source:	Occupational	Occupational	Limitation of	Remark:
			exposure limit	exposure limit	exposure	
			value:[ppm]	value:[mg/m³]	peaks:	

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Sour	rce: Occupational	Occupational	Limitation of	Remark:
			exposure limit	exposure limit	exposure	
			value:[ppm]	value:[mg/m³]	peaks:	

## DNEL-/PNEC-values DNEL value

Substance:	CAS-No.:	DNEL/DMEL
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	worker inhalative long-term, systemic 48,5 mg/m³ worker dermal long-term, systemic 13,9 mg/kg bw/day population inhalative long-term, systemic 14,5 mg/m³ population dermal long-term, systemic 8,33 mg/kg bw/day population oral long-term, systemic 8,33 mg/kg bw/day
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	worker inhalative long-term, systemic 0,822 mg/m³ worker dermal long-term, systemic 0,233 mg/kg bw/day population inhalative long-term, systemic 0,145 mg/m³ population dermal long-term, systemic 0,0833 mg/kg bw/day population oral long-term, systemic 0,0833 mg/kg bw/day
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide	162881-26-7	worker inhalative long-term, systemic 21 mg/m³ worker dermal long-term, systemic 3 mg/kg bw/day population inhalative long-term, systemic 5,2 mg/m³ population dermal long-term, systemic 1,5 mg/kg bw/day population oral long-term, systemic 1,5 mg/kg bw/day

#### **PNEC Value**

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Substance:	CAS-No.:	PNEC
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	aquatic, freshwater 3,2 μg/l aquatic, marine water 0 mg/l sewage treatment plant 10 mg/l sediment, freshwater 1730 μg/l sediment, marine water 173 μg/l intermittent release, freshwater 32 μg/l soil 340 μg/kg dw
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	aquatic, freshwater 1,4 μg/l aquatic, marine water 0,14 μg/l sediment, freshwater 115 μg/kg dw sediment, marine water 11,5 μg/kg dw soil 22,2 μg/kg dw
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide	162881-26-7	aquatic, freshwater 1 µg/l intermittent release, freshwater 1 µg/l aquatic, freshwater 1 µg/l sewage treatment plant 1000 µg/l sediment, freshwater 712 µg/kg dw intermittent release, marine water 712 µg/l soil 20000 µg/kg dw

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#### Additional information

none

## 8.2. Exposure controls

## Occupational exposure controls:

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Personal protection equipment

Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## Hand protection

Suitable gloves type: NBR (Nitrile rubber).

#### Eye/face protection

Eye glasses with side protection

#### **Body protection:**

lab coat

#### **Environmental exposure controls**

-

#### **Consumer exposure controls**

-

#### **Exposure Scenario:**

-

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Liquid Colour: orange

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Odour: characteristic

**Odour threshold:** 

Safety relevant basis data parameter Value unit Remark

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Melting point/freezing point:

Initial boiling point and boiling

No data available

No data available

range:

Flammability: No data available lower flammability or explosive No data available

limits:

Upper flammability or explosive No data available

limits:

Flash point:
Ignition temperature:
Decomposition temperature:
PH:
No data available
No data available
No data available
No data available

Kinematic viscosity: < 250 mPa\*s

Water solubility (g/L):

Partition coefficient: n
No data available

No data available

octanol/water:

Vapour pressure: No data available

Density: 1,1 g/cm<sup>3</sup>

**Relative density:**Particle properties:
No data available
No data available

## 9.2. Other information

-

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Sensitivity to light (photosensitive).

#### 10.2. Chemical stability

Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

#### 10.3. Possibility of hazardous reactions

Polymerization.

#### 10.4. Conditions to avoid

Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

## 10.5. Incompatible materials

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

#### 10.6. Hazardous decomposition products

none

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

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none

M-factor: 0 Acute toxicity (dermal): - Acute toxicity (oral): - Acute toxicity (inhalativ): -

**Acute toxicity** 

Substance:	CAS-No.:	Toxicological information
Tricyclo[5.2.1.0(2,6)]decane dimethanol diacrylate	42594-17-2	LD50 oral (rat) > 2000 mg/kg LD50 dermal (rat) > 2000 mg/kg NOAEL STOT-RE (rat) 1000 mg/kg/d
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide	162881-26-7	LD50 oral (rat) > 2000 mg/kg LD50 dermal (rat) > 2000 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	LC50 inhalation (Rat) 2000 mg/ kg bw LD50 oral (rat) 5000 mg/kg bw LD50 dermal (rat) > 2000 mg/kg bw
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	LD50 dermal (rat) > 3000 mg/kg LD50 oral (rat) > 5000 mg/kg
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	LD50 oral (rat) > 2000 mg/kg LD50 dermal (Rabbit) > 2000 mg/kg LC50 inhalation (rat, 4 h) > 5 mg/L

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#### Skin corrosion/irritation:

sensitising.

## Serious eye damage/irritation:

strongly irritant. Risk of serious damage to eyes.

## Respiratory or skin sensitisation:

May cause an allergic skin reaction.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

#### **STOT-single exposure:**

No information available.

#### STOT-repeated exposure:

No information available.

#### **Aspiration hazard:**

No data available

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

There are no data available on the preparation/mixture itself.

## **Ecotoxicity**

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Substance:	CAS-No.:	Ecotoxicity
Tricyclo[5.2.1.0(2,6)]decan dimethanol diacrylate	42594-17-2	LC50 (fish, 96 h) 1,65 mg/L EC50 (Daphnia, 48 h) 2,36 mg/L EC50 (algae, 72 h) 1,6 mg/L
Phenyl-bis(2,4,6-trimethylbenzoyl)phosphine oxide	162881-26-7	EC50 Algae (Scenedesmus subspicatus) 72 h > 0,26 mg/l NOEC (algae , 72h) > 0,26 mg/l LC50 (fish, 96 h) > 0,09 mg/L NOEC (fish, 96h) > 0,09 mg/L EC50 (microorganisms, 3h) > 0,1 g/L EC50 (Daphnia, 48 h) > 1,175 mg/L
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	EC50 (Daphnia, 48 h) 3,53 mg/L EC50 (algae, 72 h) > 2,01 mg/L
3,6,9-trioxaundecamethylenedimethacrylate	109-17-1	EC50 Daphnia (Daphnia magna) 48 h 381 mg/l
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	LC50 (fish, 96 h) 3,2 mg/l LC50 (crustaceans, 48h) 13 mg/l EC50 (algae, 96 h) 33 mg/l

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## 12.2. Persistence and degradability

There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## 12.4. Mobility in soil

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment

There are no data available on the mixture itself.

#### 12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

#### 12.7. Other adverse effects

There are no data available on the mixture itself.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

#### Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### List of proposed waste codes / waste designations according to EWC / AVV

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

## **SECTION 14: Transport information**

#### 14.1. UN number

UN No.: 3082

## 14.2. UN proper shipping name

Land transport (ADR/RID)

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## Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

Hazard label(s) / Label: 9 Classification code: / Classification M6 Code:

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## 14.4. Packing group

Packing group/ Packing Group:

#### 14.5. Environmental hazards

	res	INO
ADR/RID / IMDG / ICAO-TI / IATA-DGR:		X
Marine pollutant:	П	X

## 14.6. Special precautions for user

Land transport (ADR/RID)

transport category: 3 tunnel restriction code: Special provisions: 274, 335, 375, 601 Limited quantity (LQ): 5 L

Sea transport (IMDG) EmS-No: F-A, S-F

Special provisions: 274 335 969 Limited quantity (LQ): 5 L

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark none

## **SECTION 15: Regulatory information**

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

**EU** legislation

Information on Regulation (EC) No 166/2006 establishing a European Pollutant Release and Transfer Register:

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:

Regulation (EC) No. 648/2004 (Detergents regulation)

Regulation (EC) No 850/2004 [POP-Regulation]:

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## Regulation (EU) No 649/2012 on the export and import of dangerous chemicals:

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## Use restriction according to REACH annex XVII, no.::

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#### **National regulations**

Observe in addition any national regulations!

## **Restrictions of occupation**

No information available.

#### Other regulations, restrictions and prohibition regulations

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## 15.2. Chemical Safety Assessment

## For this preparation a chemical safety assessment has been carried out.

For this substance a chemical safety assessment has not been carried out.

#### SECTION 16: Other information

#### Relevant H- and EUH-phrases (Number and full text):

#### **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

#### Training advice

none

## Recommended restrictions of use:

refer to chapter 1.

#### **Further remarks:**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage.

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## **Documentation of changes:**

#### Changes compared to version 2:

#### 1.1 UFI-code added.

## Changes compared to version 2:

- 0 skipped version 3 to align to german version
- 1.1 Product identifier adapted
- 1.4 Company name inserted
- 2 Classification adapted
- 3.2 Composition further broken down
- 4 Revised
- 5.1 Extinguishing agent revised
- 6 revised
- 7 revised
- 8 revised
- 9.1 Viscosity corrected
- 10 revised
- 11 revised
- 12 revised
- 13 revised
- 14 UN number introduced
- 15 WGK adapted
- 16 Documentation of changes introduced

## Key literature references and sources for data

Data arise from reference works and literature.

## Abbreviations and acronyms

none

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