

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

 Version:
 4.2
 Revision date:
 09.01.2023

 Replaces version:
 4.1
 from:
 20.12.2022

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

1.1. Product identifier

audioprint L-1

UFI 8ET9-2THR-601U-MUEW

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 **Website** 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:

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1/1A/1B, H317; Repr. 2, H361; STOT SE 3, H335; Aquatic Chronic 2, H411

2.2. Label elements

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

Hazard pictograms

GHS05,GHS07,GHS08,GHS09

Signal word: Danger

EN - 04.2022 Page 1 / 11

Hazard	statem	ante.
MAZAIO	Staten	161112

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.
H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

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.
P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Revision date: 09.01.2023

Version: 4.2

P308+313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see information on this label).

P330 Rinse mouth.

P332+313 If skin irritation occurs: Get medical advice/attention.

P333+313 If skin irritation or rash occurs: Get medical advice/attention. P362+364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container according to official regulations.

Special labelling of particular preparations:

none

2.3. Other hazards

_

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Mixture related information

Composition/information on ingredients

EN - 04.2022 Page 2 / 11

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	01-2119490003- 49	40-60 %	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
Methyl 2-methylprop-2- enoate	80-62-6		25-45 %	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; Skin Sens. 1, H317; Skin Sens. 1A, H317; Skin Sens. 1B, H317; STOT SE 3, H335	ATE (dermal) = Kein Wert ermittelbar ATE (oral) = Kein Wert ermittelbar ATE (inhalativ) = Kein Wert ermittelbar
Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	75980-60-8		< 04 %	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.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: In case of accident or unwellness, seek medical advice immediately Take off

immediately all contaminated clothing.

In case of inhalation: No special measures are necessary. Consult an ophthalmologist.

Following skin 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 flush immediately with plenty of flowing water for 10

to 15 minutes holding eyelids apart and consult an ophthalmologist. Consult an

Revision date: 09.01.2023

Version: 4.2

ophthalmologist.

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

unconsciousness or cramps. Do NOT induce vomiting. Consult an

ophthalmologist.

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 alcohol resistant foam BC-powder Nitrogen Carbon dioxide (CO2)

extinguishing media

Unsuitable Excess water Full water jet Water spray jet

extinguishing media

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide.

5.3. Advice for firefighters

General information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

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

EN - 04.2022 Page 3 / 11

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove all sources of ignition. Remove persons to safety. Provide adequate ventilation.

Revision date: 09.01.2023

Version: 4.2

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

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.

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

When using do not eat, drink, smoke, sniff. Use only in well-ventilated areas. All work processes must always be designed so that the following is excluded: Inhalation

Precautions against fire and explosion:

Always close containers tightly after the removal of product. Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use the material in places where open light, fire and other flammable sources can be kept away.

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)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

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.

		(— c) c c c c p a c					
Substance:	CAS-No.:	Source:	Occupational	Occupational	Limitation of	Remark:	
			exposure limit	exposure limit	exposure		
			value:[ppm]	value:[mg/m³]	peaks:		

DNEL-/PNEC-values

EN - 04.2022 Page 4 / 11

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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

Revision date: 09.01.2023

Version: 4.2

PNEC Value

Substance:	CAS-No.:	PNEC
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
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	aquatic, freshwater 3,2 µg/l aquatic, marine water 0 ng/l STP 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

Additional information

-

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

Respiratory protection necessary at: insufficient ventilation. Suitable respiratory protection apparatus: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 374 Suitable material: Butyl rubber.

Eye/face protection

Eye glasses with side protection

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

Skin contact Inhalation

SECTION 9: Physical and chemical properties

EN - 04.2022 Page 5 / 11

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid Colour: colourless

Odour:

Odour threshold:

Safety relevant basis data

Carcty relevant basis data	naramatar	Value		Domork
Malting paint/fraction paint.	parameter	Value	unit	Remark
Melting point/freezing point:		101	۰.۵	No data available
Initial boiling point and boiling		101	-0	none
range:				Nie dete e effette
Flammability:				No data available
lower flammability or explosive				No data available
limits:				
Upper flammability or explosive				No data available
limits:				
Flash point:		10	°C	none
Ignition temperature:				No data available
Decomposition temperature:				No data available
pH:				No data available
Kinematic viscosity:				
Water solubility (g/L):				
Partition coefficient: n-				No data available
octanol/water:				
Vapour pressure:				No data available
Density:		1,1	g/cm³	none
Relative density:		,	J	No data available
Particle properties:				No data available
In the state				

Revision date: 09.01.2023

Version: 4.2

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Polymerisation

10.4. Conditions to avoid

heat. UV-radiation/sunlight.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide. Carbon monoxide.

EN - 04.2022 Page 6 / 11

SECTION 11: Toxicological information

11.1. Information on toxicological effects

There are no data available on the mixture itself.

M-factor: none Acute toxicity (dermal):

Acute toxicity (oral): - Acute toxicity (inhalative): 9,2 mg/l

Acute toxicity

Substance:	CAS-No.:	Toxicological information
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
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

Revision date: 09.01.2023

Version: 4.2

Skin corrosion/irritation:

irritant.

Serious eye damage/irritation:

irritant.

Respiratory or skin sensitisation:

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

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

Germ cell mutagenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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
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

12.2. Persistence and degradability

There are no data available on the mixture itself.

EN - 04.2022 Page 7 / 11

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 preparation/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.

Revision date: 09.01.2023

Version: 4.2

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.: 1247

14.2. UN proper shipping name

Land transport (ADR/RID)

Methylmethacrylat, monomer, stabilisiert

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

Methyl methacrylate, monomer, stabilized

14.3. Transport hazard class(es)

Hazard label(s) / Label: Classification code: / Classification F1 Code:

14.4. Packing group

Packing group/ Packing Group:

14.5. Environmental hazards

EN - 04.2022 Page 8 / 11

National regulations

Observe in addition any national regulations!

Restrictions of occupation

Other regulations, restrictions and prohibition regulations

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

EN - 04.2022 Page 9 / 11

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

i iazai a otatoiii	01110
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects.

Training advice

Observe instructions for use.

Recommended restrictions of use:

refer to chapter 1.

Further remarks:

The information provided in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or undergoes treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.

Revision date: 09.01.2023

Version: 4.2

Documentation of changes:

Änderungen gegenüber Version 4.1:

- 1 UFI-code adjusted.
- 3.2 Concentration ranges adjusted.

Changes compared to version 1:

- 0 Version number adjusted to German version 4.1
- 1 UFI code added.
- 2.2 Classification and notes adapted according to 3.2.
- 3.2 Composition revised.
- 4 Section revised
- 5 Section revised
- 6 Section revised
- 7 Section revised
- 8 Revised according to 3.2.
- 10 Section revised
- 11.1 Revised according to 3.2.
- 12.1 Revised according to 3.2.
- 13 Section revised
- 15.2 changed
- 16 Training advice inserted
- 16 Change documentation introduced.
- 16 List of abbreviations inserted

Key literature references and sources for data

Data arise from reference works and literature.

EN - 04.2022 Page 10 / 11

Abbreviations and acronyms

AC: Artikelkategorie (Article Category)

ACGIH: Rat für Arbeitsschutz und Gefahrstoffe, Amerika (American Conference of Government Industrial Hygienists)

Revision date: 09.01.2023

Version: 4.2

ADN: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf

Binnengewässern (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (Accord européen relatif transport des merchandises dangereuses par route)

AGW: Arbeitsplatzgrenzwert

AOX: Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)

Bw: Körpergewicht (Body weight)

CMR: Stoffe klassifiziert als Krebserzeugend, Mutagen oder Reproduktionstoxisch (Carcinogenic,

Mutagenic, toxic for Reproduction)

CSR: Stoffsicherheitsbericht (Chemical Safety Report)

DIN: Deutsches Institut für Normung / Deutsche Industrienorm

DNEL: Grenzwert, unterhalb dessen der Stoff keine Wirkung ausübt (Derived No Effect Level)

DPD: Zubereitungsrichtline / Richtline 1999-45-EC (Dangerous Preparations Directive)

DSD: Stoffrichtlinie / Richtlinie 67-548-EC (Dangerous Substances Directive)

DU: Nachgeschalteter Anwender (Downstream User)

EC50: Wirksame Konzentration 50% (Effective Concentration 50%)

ECHA: Europäische Chemikalienagentur

EN: Europäische Norm

EWC/EWL: Europäischer Abfallartenkatalog (European Waste Catalogue)

IATA: Verband für den internationalen Lufttransport (International Air Transport Association)

IBC: Großpackmittel (Intermediate Bulk Container)

ICAO: Internationale Zivilluftfahrt-Organisation (International Civil Aviation Organization)

IMDG Code: Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)

IMO: Internationale Seeschifffahrts-Organisation (International Maritime Organization)

ISO: Internationale Normungsorganisation (International Standards Organisation)

LC50: Lethale (Tödliche) Konzentration 50%

LD50: Lethale (Tödliche) Dosis 50%

LEV: Lokale Absaugung (Local exhaust ventilation)

MAK: Maximale Arbeitsplatzkonzentration – DFG

n.a.: nicht anwendbar n.b.: nicht bestimmt

OEL: Arbeitsplatzgrenzwert (Occupational Exposure Limit)

PBT: persistent, bioakkumlierbar, giftig (persistent, bioaccumulative, toxic)

PNEC: Abgeschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)

PPE/PSA: Persönliche Schutzausrüstung (Personal Protective Equipment)

REACH: Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)

RID: Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Grenzwert für Kurzzeitexposition (Short-term Exposure Limit)

SVHC: Stoff sehr hoher Besorgnis (Substance of Very High Concern)

TLV: Arbeitsplatzgrenzwert (Threshold Limit Value)

VOC: Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)

vPvB: sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)

EN - 04.2022 Page 11 / 11