Material Safety Data Sheet

(91/155/EC)

Product name: **HEBAlac am**
Article No.: **45642 / 45641 / 45640**

Print date: September 26, 2022 **Revision date: 27.04.2021**

1. Chemical Product and Company Identification

1.1 Product identifier: HEBAlac am

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Light curing lacquer for use in audiology

1.3 Details of the supplier of the safety data sheet
Manufacturer / distributor identification

Company: HEBA- OTOPLASTIK Labortechnik u. Einrichtungs-GmbH & Co. KG
Hauptstr. 42 D-63853 Mömlingen
Phone: +49 6022 / 681600 Fax: +49 6022 / 31663
E-Mail: Info@HEBA.de www.HEBA.de

1.4 Emergency telephone number:
Toxic emergency call Munich + 49 89 19240
(Toxicological department of the 2nd medical clinic)

2. Hazards identification

2.1 Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
Flammable liquid: Flam. Liq. 2
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitisation: Skin Sens. 1A
Specific target organ toxicity - single exposure: STOT SE 3
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

2.2 Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"
acrylic acid derivates
vinylester resin
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Signal word: Danger
Pictograms:

Hazard statements

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/ container in accordance with local and national regulations.

2.3 Other hazards No information available

3. Composition / information on ingredients

3.1 Mixtures

Chemical characterization

Mixture of acrylic/ methacrylic resins with auxiliary matters.

Hazard components

CAS No.	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
80-62-6	"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"			45-<50%
	201-297-1	607-035-00-6		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
	acrylic acid derivates			35-<40%
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H319 H317 H412			
	aliphatic polyestertriurethane triacrylate			5-<10%
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
55818-57-0	Vinylester resin			1-<5%
			01-2119490020-53	
	Skin Sens. 1; H317			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			1-<5%
	278-355-8	015-203-00-X		
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411			

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

4. First-aid measures

4.1 Description of first aid measures

After inhalation
Provide fresh air. Medical treatment necessary.

After contact with skin
After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
Rinse mouth immediately and drink plenty of water.
Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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
Treat symptomatically

5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder

5.2 Special hazards arising from the substance or mixture: Highly flammable. Vapors can form explosive mixture with air.

5.3 Advice for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.
Additional information: Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2 Environmental precautions: Keep away from sewage treatment plants, in-shore waters and earth. Observe local byelaws.
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.

6.3 Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapors can form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Hints on joint storage Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. Further information on storage conditions Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs. Keep away from all kind of light. An inert gas blanket should not be applied, because the stability of the product depends on the presence of oxygen (air).

7.3 Specific end use(s): Lacquer for coating of earmolds. For use by trained specialist staff.

8. Exposure controls / personal protection

8.1 Control parameters

Exposure limits (EH 40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50 100	208 416		TWA (8h) STEL (15min)	WEL WEL

8.2 Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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 are gloves of the following material: Butyl caoutchouc (butyl rubber)

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid	
Color:	anthracite	
Odor:	faintly like esters	
		Test method
pH-Value:	not determined	
Changes in the physical state		
Melting point:	not determined	
Initial boiling and boiling range:	92 °C	DIN 51356
Flash point:	12 °C	DIN 51755
Flammability:		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	2 vol. %	
Upper explosion limits:	12 vol %	
Ignition temperature:	> 400 ^C	DIN 51794
Auto-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature	> 100 °C	
Oxidizing properties		
Not oxidizing		
Vapor pressure (at 20 °C):	40 hPa	
Vapor pressure (at 50 °C):	160 hPa	
Density (at 20 °C):	1,07 g/cm³	DIN 51757
Water solubility (at 20 °C):	16 g/L	
Solubility in other solvents		
not determined		
Partition coefficient:	not determined	
Vapor density:	not determined	
Evaporation rate:	not determined	

9.2 Other information

Solid content:	not determined

10. Stability and reactivity

10.1 **Reactivity:** Highly flammable

10.2 **Chemical stability:** The product is stable under storage at normal ambient temperatures.

10.3 **Possibility of hazardous reactions:** Reacts with: oxidising agents, radicals forming substances or heavy metal ions.

10.4 **Conditions to avoid:** Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors can form explosive mixtures with air. Ultra-violet light and daylight initiate polymerisation of the product. Therefore keep only in tightly closed containers away from any sources of light. Keep at temperature between 15°C/ 59°F and 25°C/ 77°F.

10.5 Incompatible materials: No information available.
10.6 Hazardous decomposition products: In case of fire, acrid acrylic fumes may occur.

11. Toxicological information

11.1 Information on toxicological effects

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

CAS No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"				
	Oral	LD50 7870 mg/kg	Rat		
	Dermal	LD50 > 5000 mg/kg	Rabbit		
	Inhalation (4h) vapor	LC50 78 mg/l	Rat		
	Acrylic acid derivates				
	Oral	LD50 2000 mg/kg	Rat	OECD 423	
	Dermal	LD50 2000 mg/kg	Rabbit	OECD 402	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	Oral	LD50 > 5000 mg/kg	Rat		
	Dermal	LD50 > 2000 mg/kg	Rat		

Irritation and corrosivity: Causes skin irritation. Causes serious eye irritation
Sensitising effects: May cause an allergic skin reaction. ("methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"; acrylic acid derivates; vinylester resin; diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide)
Carcinogenic/mutagenic/toxic effects for reproduction: Based on available data, the classification criteria are not met.
STOT-single exposure
May cause respiratory irritation. ("methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA")
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 on tests: This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

12. Ecological Information

12. 1 Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No.						
	Aquatic toxicity	Dose	[h] [d]	Spezies	Source	Method
80-62-6	"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"					
	Acute fish toxicity	LC50 > 100 mg/l	96 h			

	Acrylic acid derivates					
	Algae toxicity	NOEC 10 mg/l	72 d	Pseudokirchneriella subcapitata		
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute algae toxicity	ErC50 > 2,01 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 3,52 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>1000 mg/l)	3 h	Activated sludge		

12.2 Persistence and degradability

CAS No.	Chemical name			
	Method	Value	D	Source
	Evaluation			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
		0-10 %	28	
	Not readily biodegradable (according to OECD criteria)			

12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1

BCF

CAS No.	Chemical name	BCF	Species	Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	47-55	Cyprinus carpio (Common Carp)	

12.4 Mobility in soil: The product has not been tested.

12.5 Results of PBT and vPvB assessment: Not identified as PBT / vPvB substances

12.6 Other adverse effects: Not information available.

Further information: ological effects: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

13.1 Waste treatment methods

Advice on disposal:

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Dispose of waste according to applicable legislation.

Contaminated packaging:

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

14. Transport Information

Land transport (ADR/RID)

14.1.	**UN number:**	UN 1247
14.2.	**UN proper shipping name:**	Methyl methacrylate monomer, stabilized
14.3.	**Transport hazard class(es):**	3
14.4.	**Packing group:**	II
	Hazard label:	3
	Classification code:	F1
	Limited quantity:	5 L/ 30kg
	Hazard No:	33
	Tunnel restriction code:	D/E

Other applicable information (land transport)
Flammable liquid

Marine transport (IMDG)

14.1.	**UN number:**	UN 1247
14.2.	**UN proper shipping name:**	Methyl methacrylate monomer, stabilized
14.3.	**Transport hazard class(es):**	3
14.4.	**Packing group:**	II
	Hazard label:	3
	Marine pollutant:	no
	Special Provisions:	-
	Limited quantity:	5L/ 30kg
	EmS:	F-E, S-E

Other applicable information (marine transport)
Flash point: 12°C c.c.

Air transport (ICAO-TI/IATA-DGR)

14.1.	**UN number:**	UN 1247
14.2.	**UN proper shipping name:**	Methyl methacrylate monomer, stabilized
14.3.	**Transport hazard class(es)**:	3
14.4.	**Packing group:**	II
	Hazard label:	3
	Limited quantity Passenger:	1 L/ 30 kg
	Passenger LQ:	Y341
	Excepted quantity:	E2
	IATA-packing instructions - Passenger:	353
	IATA-max. quantity - Passenger:	5 L
	IATA-packing instructions - Cargo:	364
	IATA-max. quantity - Cargo:	60 L

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

15. Regulatory information

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

EU regulatory information

2004/42/EC (VOC):	48%

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	2 - clearly water contaminating
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

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

16. Other information

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further information
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, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)