

Safety data sheet

Härterpulver für Acryl- und Polyesterharze

Uniprox Safety data sheet according to 1907/2006/EC, Article 31

Product: **Härterpulver für Acryl- und Polyesterharze**

Date/ Revised: 05.12.2019

Document-No.: MG120_Haerterpulver_006_EN

1. Substance/preparation and company identification

Trade name: Härterpulver für Acryl- und Polyesterharze (MG120)

Application of the substance/ the preparation: Reaction initiator

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2. Hazard identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Org. Perox. D	H242	Heating may cause a fire.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1B	H360D	May damage the unborn child.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS07



GHS08



GHS09

Signal word

Danger

Hazard-determining components of labelling:

Hazard statements

dicyclohexyl phthalate, dibenzoyl peroxide
H242 Heating may cause a fire.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360D May damage the unborn child.

Precautionary statements

- H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
 P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
 P234 Keep only in original container.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P410 Protect from sunlight.
 P411+P235 Store at temperatures not exceeding +30°C. Keep cool.
 P420 Do not mix with peroxide-accelerators or reducing agents.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

Not applicable.

vPvB:

Not applicable.

Restricted for professional users.**3. Composition / information on ingredients****3.2 Chemical characterization : Mixtures****Dangerous components:**CAS: 94-36-0

dibenzoyl peroxide 40-50%

EINECS: 202-327-6

Index number: 617-008-00-0

Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317

Reg-No.:01-2119511472-50

CAS: 84-61-7

dicyclohexyl phthllate 40-50%

EINECS: 201-545-9

Index number: 607-719-00-4

Repr. 1B, H360D; Skin Sens. 1, H317;

Reg-No.:01-2119978223-34

Aquatic Chronic 3, H412

Additional information: For the wording of the listed risk phrases refer to section 16.**4. First-aid measures****4.1 Description of first aid measures****General information:**

Take care of personal protection for the first aider.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.

After skin contact:	Immediately wash with water and soap and rinse thoroughly.
After eye contact:	Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	If symptoms persist consult doctor.
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.
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5. Fire-fighting measures	
5.1 Extinguishing media	
Suitable extinguishing agents:	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
5.3 Advice for firefighters	
Protective equipment:	Do not inhale explosion gases or combustion gases.
Additional information	Cool endangered receptacles with water spray. Self-protection first.
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6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up	Ensure adequate ventilation. Large quantities should be diluted with suitable desensitisation agent to a concentration below 10 % before disposal. Soak up with absorbent material (e. g. Vermiculit) and dispose of in accordance with government regulations.
6.4 Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. In case of large spillage the environmental authority should be informed.

7. Handling and storage
7.1 Precautions for safe handling

Keep away from heat and direct sunlight.
Open and handle receptacle with care.
Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Do not refill residue into storage receptacles.
Restrict the quantity stored at the work place.
Before break and at the end of work hands should be thoroughly washed.
Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
Oxidizing because of releasing oxygene.
While using do not eat, drink or smoke.
Do not generate flames or sparks.
Keep product and emptied container away from heat and sources of ignition.
Avoid shock and friction.
Take precautionary measures against static discharges.
Do not smoke.

Information about fire – and explosion protection:

Protect from heat.
Protect against electrostatic charges.
Prevent impact and friction.
Use explosion-proof apparatus / fittings and spark-proof tools.
Fumes can combine with air to form an explosive mixture.
Wear shoes with conductive soles.
Formation of flammable or explosive gas/air-mixtures is possible.
Avoid open flames, sparks, direct sunlight and other sources of ignition.
Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Pay attention to the special requirements of your local authorities for storing dangerous goods.

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility:

Do not store or park organic peroxide together with heavy metal compounds and amines.
Store away from foodstuffs, drinks and feeding stuffs.

Further information about

storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination.
Recommended storage temperature (To maintain quality):	max. +30 °C
7.3 Specific end use(s)	No further relevant information available.

8. Exposure controls and personal protection

Additional information about

design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

94-36-0 dibenzoyl peroxide

WEL (Great Britain) Long-term value: 5 mg/m³

84-61-7 dicyclohexyl phthalate

WEL (Great Britain) Long-term value: 5 mg/m³

DNELs

94-36-0 dibenzoyl peroxide

Oral	DNEL Longterm System	2 mg/kg bw/day (General population)
Dermal	DNEL Longterm System	13.3 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	39 mg/m ³ (Worker)

84-61-7 dicyclohexyl phthalate

Dermal	DNEL Longterm System	0.5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	35.2 mg/m ³ (Worker)

PNECs

94-36-0 dibenzoyl peroxide

PNEC Marinewater sed	0.001 mg/kg sed dw
PNEC Freshwater	0.000002 mg/l (AF50)
PNEC Freshwater sed	0.013 mg/kg sed dw
PNEC STP	0.35 mg/l (-)
PNEC Marinewater	0.000002 mg/l (AF500)

84-61-7 dicyclohexyl phthalate

PNEC Marinewater sed	0.106 mg/kg sed dw
PNEC Freshwater	0.004 mg/l (AF50)
PNEC Freshwater sed	1.06 mg/kg sed dw
PNEC Soil	0.21 mg/kg soil dw
PNEC STP	10 mg/l (AF10)
PNEC Marinewater	0 mg/l (AF500)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and

hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid close or long term contact with the skin.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:	Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated.
Protection of hands:	Use suitable respiratory device when it exceeds exposure limit and when insufficiently ventilated. Filter P2 Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR, Fluorocarbon rubber (Viton), Nitrile rubber, NBR, Neoprene.
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Tightly sealed goggles.
Body protection:	Protective work clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid Powder

Colour: Whitish

Odour: Characteristic

Odour threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: Not applicable.

Boiling point/Boiling range: Not applicable.

Flash point: Not determined.

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: +60 °C (SADT)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not determined.

Density at 20°C: 1.23 g/cm³

Bulk density at 20 °C: 650 kg/m³

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with water:

Undetermined.

Partition coefficient (n-octanol/water): not determined

Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.
Active oxygen	3,2 - 3,4 %
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10. Stability and reactivity	
10.1 Reactivity	
10.2 Chemical stability	
Thermal decomposition / conditions to be avoided:	SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
10.3 Possibility of hazardous reactions	Self-accelerating decomposition at SADT.
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).
10.6 Hazardous decomposition products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.
Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.
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11. Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity:	
LD/LC50 values relevant for classification:	
94-36-0 dibenzoyl peroxide	
Oral LD50	>5000 mg/kg (rattus)
84-61-7 dicyclohexyl phthalate	
Oral LD50	>2000 mg/kg (rattus)
Primary irritant effect:	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation
Respiratory or skin sensitisation	May cause an allergic skin reaction.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
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	May damage the unborn child.
STOT-single exposure	Based on available data, the classification criteria are not met.
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.
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12. Ecological information	
12.1 Toxicity	
Aquatic toxicity:	
94-36-0 dibenzoyl peroxide	
EC50 / 48h	0.110 mg/l (daphnia magna)
EC50 / 72h	0.0711 mg/l (pseudokirchneriella subcapitata)
LC50 / 96h	0.0602 mg/l (oncorhynchus mykiss)
12.2 Persistence and degradability	No further relevant information available.
12.3 Bioaccumulative potential	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.
Ecotoxicological effects:	
Remark:	Very toxic for fish
Additional ecological information:	
General notes:	Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects	No further relevant information available.
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13. Disposal considerations	
13.1 Waste treatment methods	
Recommendation	After diluting with a suitable inert solid material to 10 %, the product must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.
Uncleaned packaging:	
Recommendation:	This material and its container must be disposed of as hazardous waste.
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14. Transport information**14.1 UN-Number****ADR, IMDG, IATA**

UN3106

14.2 UN proper shipping name**ADR**3106 ORGANIC PEROXIDE TYPE D,
SOLID (DIBENZOYL PEROXIDE),
ENVIRONMENTALLY HAZARDOUS
ORGANIC PEROXIDE TYPE D, SOLID
(DIBENZOYL PEROXIDE), MARINE
POLLUTANT**IMDG****IATA**ORGANIC PEROXIDE TYPE D, SOLID
(DIBENZOYL PEROXIDE)**14.3 Transport hazard class(es)****ADR****Class**

5.2 (P1) Organic peroxides.

Label

5.2

IMDG**Class**

5.2 Organic peroxides.

Label

5.2

IATA**Class**

5.2 Organic peroxides.

Label

5.2

14.4 Packing group**ADR, IMDG, IATA**

Void

14.5 Environmental hazards:Product contains environmentally hazardous
substances: DIBENZOYL PEROXIDE**Marine pollutant:**

Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Organic peroxides.

Danger code (Kemler):

-

EMS Number:

F-J,S-R

Stowage Category

SW1 Protected from sources of heat.

Stowage Code

SG35 Stow "separated from" acids.

Segregation Code

SG36 Stow "separated from" alkalis.

14.7 Transport in bulk according to**Annex II of MARPOL73/78 and****the IBC Code**

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

500 g

Transport category

2

Tunnel restriction code

D

RID / GGVSEB:

like ADR

IMDG**Limited quantities (LQ)**

500g

Excepted quantities (EQ)

Code: E0 Not permitted as Excepted Quantity

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance
or mixture****Directive 2012/18/EU**

Qualifying quantity (tonnes) for the application of lower-tier requirements 50t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200t

REGULATION (EC) No 1907/2006

ANNEX XVII

Conditions of restriction: 30

National regulations:

Other regulations, limitations and prohibitive regulations

Please note:

Take care of the respective local regulations.

15.2 Chemical safety

assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Org. Perox. B: Organic Peroxides, Type B

Org. Perox. CD: Organic Peroxides, Types C, D

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1 Aquatic

Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

The information refers explicit to the indicated product. In opinion of the Uniprox GmbH & Co. KG this information is right and reliable at the time of the generation. Uniprox GmbH & Co. KG don't assume an express or silent warranty concerning to its correctness, reliability or

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