

Safety data sheet

Page: 1/12

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

Product: **Hardener for NORBIN Body Filler 0,05kg**

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

1. Identification

Product identifier

Hardener for NORBIN Body Filler 0,05kg

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

Relevant identified uses: hardener

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY

Telephone: +49 621 60-0

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Eye Dam./Irrit. 2A

Skin Sens. 1

STOT RE 2

Aquatic Acute 1

| Aquatic Chronic 1

Org. Perox. Type E

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

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(ID no. 50784636/SDS_GEN_00/EN)

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For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System, UN (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P235	Keep cool.
P264	Wash contaminated body parts thoroughly after handling.
P234	Keep only in original packaging.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P337 + P313	If eye irritation persists: Get medical attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Precautionary Statements (Storage):

P403	Store in a well-ventilated place.
P420	Store separately.
P411	Store at temperatures not exceeding 20 °C/68 °F.
P410	Protect from sunlight.

Precautionary Statements (Disposal):

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

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(ID no. 50784636/SDS_GEN_00/EN)

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P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards

According to UN GHS criteria

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

organic peroxide

Hazardous ingredients (GHS)

According to UN GHS criteria

Benzoyl peroxide

Content (W/W): $\geq 50\%$ - $< 75\%$	Org. Perox. B
CAS Number: 94-36-0	Skin Sens. 1
EC-Number: 202-327-6	Aquatic Acute 1
REACH registration number: 01-2119511472-50	Aquatic Chronic 1
	Eye Dam./Irrit. 2A
	M-factor acute: 10
	M-factor chronic: 10
	H319, H317, H410, H241

maleic acid dibutyl ester

Content (W/W): $\geq 20\%$ - $< 25\%$	Skin Sens. 1
CAS Number: 105-76-0	STOT RE 2
EC-Number: 203-328-4	H317, H373

2,2'-Oxydiethanol

Content (W/W): $\geq 5\%$ - $< 7\%$	Acute Tox. 4 (oral)
CAS Number: 111-46-6	H302
EC-Number: 203-872-2	
INDEX-Number: 603-140-00-6	

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Safety data sheet according to UN GHS 4th rev.

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Version: 2.0

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(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Keep at rest. Rinse mouth immediately with water.

Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, allergic symptoms, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Has a fire-promoting effect due to release of oxygen.

Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

Product: **Hardener for NORBIN Body Filler 0,05kg**

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Contain and collect pastes with a plastic putty knife (see section 7). Contain and collect liquids with inert absorbent material such as vermiculite or perlite. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

Segregate from oxidants. Segregate from organic substances. Keep away from reducing agents (e.g. amines), acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Segregate from combustible materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP)

Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Specific end use(s)

Please refer to the technical leaflet for further information.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:

chemical-resistant disposable coveralls

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

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(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	paste-like	
Colour:	various	
Odour:	pungent	
pH value:	substance/mixture not stable	
Melting point:	not determined	
onset of boiling:	not determined	
Flash point:		(ISO 3679)
Flammability:	not applicable	
Lower explosion limit:	not applicable	
Upper explosion limit:	not determined	
Ignition temperature:	> 200 °C	
Vapour pressure:	(20 °C) not determined	
	(50 °C) not determined	
Density:	1,140 g/cm ³ (20 °C)	
Relative vapour density (air):	Heavier than air.	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
Thermal decomposition:	The product is capable of self-sustaining progressive thermal decomposition.	
Viscosity, kinematic:	691,3 mm ² /s (20 °C)	
	(40 °C) not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

Other information

Burning rate:	The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.	(UN Test N.1 (ready combustible solids))
Self heating ability:	It is not a material capable of spontaneous heating	
SADT:	50 °C	
Miscibility with water:	immiscible	
Flow time:	> 100 s	(DIN EN ISO 2431; 6 mm)

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 05.12.2022
Product: **Hardener for NORBIN Body Filler 0,05kg**

Version: 2.0

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

Avoid heat. Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid freezing.

Incompatible materials

Substances to avoid:

flammable, oxidizable substances, organic substances, Reducing agents, heavy metal compounds, acids, alkalis, contamination., oxidizing agents

Hazardous decomposition products

:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced. Flammable vapours., No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

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

Information on: 2,2'-Oxydiethanol

Experimental/calculated data:

LD50 rabbit (dermal): 13.300 mg/kg (other)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 05.12.2022
Product: **Hardener for NORBIN Body Filler 0,05kg**

Version: 2.0

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

Information on: Benzoyl peroxide

Toxicity to fish:

LC50 0,060 mg/l, *Oncorhynchus mykiss*

Information on: Benzoyl peroxide

Aquatic invertebrates:

EC50 0,110 mg/l, *Daphnia magna*

Information on: Benzoyl peroxide

Safety data sheet according to UN GHS 4th rev.
Date / Revised: 05.12.2022
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Aquatic plants:

EC50 0,071 mg/l, Desmodemus subspicatus

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: Benzoyl peroxide

Elimination information:

71 % BOD of the ThOD (28 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, activated sludge, domestic, non-adapted)

Bioaccumulative potential

Bioaccumulation potential:
No data available.

Mobility in soil

Assessment transport between environmental compartments:
Adsorption in soil: No data available.

13. Disposal Considerations

Waste treatment methods

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

UN number or ID number: UN3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Benzoyl peroxide)

Transport hazard class(es): 5.2, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: Tunnel code: D
Protect from heat

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

Product: **Hardener for NORBIN Body Filler 0,05kg**

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

RID

UN number or ID number: UN3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Benzoyl peroxide)

Transport hazard class(es): 5.2, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: Protect from heat

Inland waterway transport

ADN

UN number or ID number: UN3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Benzoyl peroxide)

Transport hazard class(es): 5.2, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: Protect from heat

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Benzoyl peroxide)

Transport hazard class(es): 5.2, EHSM
Packing group: Not applicable
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: EmS: F-J; S-R
Protect from heat

Air transport

IATA/ICAO

UN number or ID number: UN 3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Benzoyl peroxide)

Transport hazard class(es): 5.2
Packing group: Not applicable

 Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.12.2022

Version: 2.0

Product: **Hardener for NORBIN Body Filler 0,05kg**

(ID no. 50784636/SDS_GEN_00/EN)

Date of print 18.01.2023

Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	Protect from heat

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

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

Not applicable

16. Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Org. Perox.	Organic Peroxides
Acute Tox.	Acute toxicity
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H241	Heating may cause a fire or explosion.
H373	May cause damage to organs through prolonged or repeated exposure.
H302	Harmful if swallowed.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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