

# Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 05.10.2023

Version: 2.4

Product: **GLASURIT MISCHLACK AH90-23-1>5**

(ID no. 53160207/SDS\_GEN\_00/EN)

Date of print 06.10.2023

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## 1. Identification

### Product identifier

## **GLASURIT MISCHLACK AH90-23-1>5**

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

Relevant identified uses: Coatings and related products

### Details of the supplier of the safety data sheet

Company:

BASF Coatings GmbH  
Postfach 6123  
48136 Muenster  
Deutschland

Telephone: +49/2501/143688

E-mail address: product-safety-coatings@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit. 2  
Eye Dam./Irrit. 2A  
Skin Sens. 1B  
Flam. Liq. 4

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:

H227	Combustible liquid.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash contaminated body parts thoroughly after handling.

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.
P337 + P313	If eye irritation persists: Get medical attention.
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.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
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Precautionary Statements (Disposal):

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

fillers, Water, organic solvent, polyurethane

##### Hazardous ingredients (GHS)

According to UN GHS criteria

##### 2-Butoxyethanol

Content (W/W):  $\geq 12,5\%$  -  $< 15\%$

CAS Number: 111-76-2

EC-Number: 203-905-0

INDEX-Number: 603-014-00-0

Flam. Liq. 4

Eye Dam./Irrit. 2A

Acute Tox. 4 (oral)

Skin Corr./Irrit. 2

H227, H319, H315, H302

##### Butan-2-ol

Content (W/W):  $\geq 5\%$  -  $< 7\%$

CAS Number: 78-92-2

EC-Number: 201-158-5

INDEX-Number: 603-127-00-5

Flam. Liq. 3

Eye Dam./Irrit. 2A

STOT SE 3 (drowsiness and dizziness)

STOT SE 3 (irr. to respiratory syst.)

H226, H319, H336, H335

##### 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Content (W/W):  $\geq 1\%$  -  $< 2\%$

CAS Number: 126-86-3

EC-Number: 204-809-1

Eye Dam./Irrit. 1

Skin Sens. 1B

Aquatic Acute 3

Aquatic Chronic 3

H318, H317, H402, H412

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

### 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:**

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

**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:**

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

**Most important symptoms and effects, both acute and delayed**

Symptoms: Eye irritation, allergic symptoms, skin irritation, 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.

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## 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**

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

**Advice for fire-fighters**

Special protective equipment:

Appropriate breathing apparatus may be required.

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. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## 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 spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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## **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. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. 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. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

### **Conditions for safe storage, including any incompatibilities**

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate), High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (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. 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.

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## 8. Exposure Controls/Personal Protection

### Control parameters

#### Components with occupational exposure limits

111-76-2: 2-Butoxyethanol

### Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter 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:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

#### 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.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid
Colour:	various
Odour:	of glycol
pH value:	7,0 - 9,0
Melting point:	not determined
onset of boiling:	not determined
Flash point:	> 61 °C
Flammability:	Combustible liquid.
Lower explosion limit:	36 g/m <sup>3</sup>
Ignition temperature:	> 200 °C
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	1,036 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	Lighter than air.
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, kinematic:	(40 °C) No data available. 97,3 mm <sup>2</sup> /s (23 °C)
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	
Miscibility with water:	miscible	
Flow time:	> 72 s (23 °C)	(DIN EN ISO 2431; 4 mm)

## 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**

Vapours may form ignitable mixture with air.

**Conditions to avoid**

Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

**Incompatible materials**

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

**Hazardous decomposition products**

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

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**11. Toxicological Information****Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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

Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Respiratory/Skin sensitization



Assessment of sensitization:  
Sensitization after skin contact possible.

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

#### Aspiration hazard

No aspiration hazard expected.

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## 12. Ecological Information

### **Toxicity**

Assessment of aquatic toxicity:  
There are no test results available for this product. Do not allow to enter drains or waterways. Based on available data, the classification criteria are not met.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Biological degradability of hazardous substances mentioned in section 3:

*Information on: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol*  
*Elimination information:*

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< 10 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge, domestic)

25,4 % DOC reduction (57 d) (OECD Guideline 302 A) (aerobic, activated sludge, domestic)

### 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

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known

user

### **Inland waterway transport**

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

### **Air transport**

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

### **Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## 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:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
STOT SE	Specific target organ toxicity — single exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H227	Combustible liquid.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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.

Vertical lines in the left hand margin indicate an amendment from the previous version.