## according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Universal Fungicide 542

Universal-Desinfektionsmittel 542

**Revision date:** 15.09.2020 **Version (Revision):** 5.0.1 (5.0.0)

**Print date :** 15.09.2020

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

#### 1.1 Product identifier

Universal Fungicide 542 Universal-Desinfektionsmittel 542

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

#### Relevant identified uses

**Products Category [PC]** 

PC0.67 - PC 0.67 - Disinfectant

#### Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

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

## Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG www.brillux.de

**Street:** Weseler Straße 401

Postal code/city: D - 48163 Münster

**Telephone:** +49 (0)251-7188-0 **Telefax:** +49 (0)251-7188-280 **Information contact:** 

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

## 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Aquatic Acute 1; H400 - Hazardous to the aquatic environment: Acute 1; Very toxic to aquatic life.

Aquatic Chronic 2; H411 - Hazardous to the aquatic environment: Chronic 2; Toxic to aquatic life with long lasting effects.

Eye Dam. 1; H318 - Serious eye damage/eye irritation: Category 1; Causes serious eye damage.

Skin Corr. 1B; H314 - Skin corrosion/irritation: Category 1B; Causes severe skin burns and eye damage.

Met. Corr. 1; H290 - Corrosive to metals: Category 1; May be corrosive to metals.

## 2.2 Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms** 





Corrosion (GHS05) · Environment (GHS09)

Signal word

Danger

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#### Hazard components for labelling

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES; CAS No.: 68424-85-1

#### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER or a doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

[or shower].

P391 Collect spillage.

P501 Dispose of contents/container to approved disposal company or local collection.

#### 2.3 Other hazards

#### Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Description

Biocide solution based on water, additives and preservatives.

#### **Hazardous ingredients**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES; REACH No.: 01-2119970550-39

; EC No.: 270-325-2; CAS No.: 68424-85-1 (M Acute=10) (M Chronic=1)

Weight fraction :  $\geq$  5 - < 10 %

Classification 1272/2008 [CLP]: Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute Tox. 4;

H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

## **Additional information**

Full text of H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

## Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

#### In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. In case of skin reactions, consult a physician.

## After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical

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adivce if complaint continues.

#### After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

## 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

This product is not flammable. In case of a fire extingnish surroundings as indicated.

## Unsuitable extinguishing media

None known.

## 5.2 Special hazards arising from the substance or mixture

## **Hazardous combustion products**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. In case of fire following gases may be formed: nitrogen oxides (NOx), carbon monoxide (CO), hydrogen chloride (HCl).

#### 5.3 Advice for firefighters

## **Special protective equipment for firefighters**

When extinguishing fires, use breathing apparatus with an independent source of air.

#### 5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

The product produced in combination with water slippery surfaces. Refer to protective measures listed in sections 7 and 8. Keep no protective persons away, personal should wear protective clothings. Avoid contact with eyes and skin.

#### 6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

## 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomite, acid-binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Disposing of contaminated material as waste after section 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8,

information about the refuse disposal in section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### **Protective measures**

Before using the product do not open the packaging. Using a suitable safety equipment (see section 8). Following legal

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protection and safety regulations. Handle and open container with care. Avoid contact with skin and eyes. Ensure a good ventilation in room and working area. Read label before use.

#### Measures to prevent fire

This product is not flammable. Cool endangered containers with water.

## Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Corrosive to metals. Keep out of the reach of children.

#### Hints on joint storage

Store away from foodstuffs. Do not store together with incompatible materials (oxidising agent).

Storage class (TRGS 510): 12

#### **Further information on storage conditions**

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed. Offering protection against frost.

## 7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

#### **Industrial sector specific solutions**

**GISCODE:** Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): GD40

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

None

#### 8.2 Exposure controls

#### **Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this shoul be achieved by the use of local exhaust ventilation and good general extraction.

Observe data available of section 7.

## Personal protection equipment

## **Eye/face protection**

Use protection glasses in case of spattering.

#### Skin protection

#### **Hand protection**

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0.38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

#### **Body protection**

Using work protective clothing, which are completly closed.

## **Respiratory protection**

Breathing protection equipment is not required in adequately ventilated places. Do not inhale the vapour.

#### General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area.

## **Environmental exposure controls**

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DIN-cup 4 mm

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> The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

## **Appearance**

Physical state: Liquid.

**Colour:** conformable to product designation.

**Odour** characteristic

## Safety characteristics

Initial boiling point and boiling (1013 hPa) not applicable range: Flash point : not applicable not applicable Auto-ignition temperature : Vapour pressure: (50°C) not determined (20°C) g/cm<sup>3</sup> Density: approx. 1 Solvent separation test : (20°C) not applicable

pH: approx.

Flow time: (20°C) not applicable

## 9.2 Other information

Other physical and chemical data have not been determined.

#### **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

## 10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

#### 10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

## 10.5 Incompatible materials

No dangerous reaction known. Incompatible materials: Oxidizing agents and inorganic substances.

## 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly.

## 10.7 Additional information

Corrosive to metals.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

#### **Acute oral toxicity**

Parameter: ATEmix calculated

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Exposure route : Oral

Effective dose: 10000 mg/kg

Parameter: LD50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL,

CHLORIDES; CAS No.: 68424-85-1)

Exposure route: Oral
Species: Rat
Effective dose: 795 mg/kg

Acute dermal toxicity

Parameter: ATEmix calculated

Exposure route : Dermal Effective dose : not relevant

Acute inhalation toxicity

Parameter: ATEmix calculated
Exposure route: Inhalation (vapour)
Effective dose: not relevant

Parameter: ATEmix calculated ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-

ALKYLDIMETHYL, CHLORIDES; CAS No.: 68424-85-1)

Exposure route: Inhalation
Effective dose: > 5000 mg/kg

**Corrosion** 

Irritation:

Causes severe skin burns and eye damage.

## Respiratory or skin sensitisation

Sensitization: The product does not cause any skin and respiratory tract sensitization.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

## **STOT-single exposure**

No risk expected.

## **STOT-repeated exposure**

No risk expected.

## **Aspiration hazard**

No risk expected.

#### 11.4 Other adverse effects

## Other observations

This product is unlikely to harm health, given normal and proper handling and hygenic precautions.

## 11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regualtion), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## **Aquatic toxicity**

#### Acute (short-term) fish toxicity

Parameter: LC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL,

CHLORIDES; CAS No.: 68424-85-1)

Species: Oncorhynchus mykiss (Rainbow trout)

Effective dose : 0,85 mg/l Exposure time : 96 h

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#### Acute (short-term) toxicity to crustacea

Parameter: EC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL,

CHLORIDES; CAS No.: 68424-85-1)

Species: Daphnia magna (Big water flea)

Effective dose : 0,016 mg/l Exposure time : 48 h 

Chronic (long-term) toxicity to crustacea

Parameter: NOEC ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL,

CHLORIDES; CAS No.: 68424-85-1)

Species: Daphnia
Effective dose: 0,025 mg/l
Exposure time: 21 D

#### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter: EC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL,

CHLORIDES; CAS No.: 68424-85-1)

Species: Selenastrum capricornutum

Effective dose: 0,02 mg/l Exposure time: 72 h

## 12.2 Persistence and degradability

These are not data avaible about the potential of the product concerning his persistency and degradability.

## 12.3 Bioaccumulative potential

These are not data availble about the bio accumulation potential of the product.

No information about the individual components is available either.

#### 12.4 Mobility in soil

These are not datas availble about the potential of the product concerning his mobility in the ground.

A penetrating into soil, waters and sewage system should be prevented.

## 12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

#### 12.6 Other adverse effects

No information available.

#### 12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## **Product/Packaging disposal**

#### Waste codes/waste designations according to EWC/AVV

## Waste code product

Disposal-definition No. (EWC-Code): 07 04 99.

#### **Waste treatment options**

#### Appropriate disposal / Product

Packaging with not dry uped residues have to droped at official collecting sites. Dispose of contents/container to approved disposal company or local collection according to the local regulations.

## Appropriate disposal / Package

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

## **SECTION 14: Transport information**

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#### 14.1 UN number

UN 3082

#### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES )

#### Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES )

#### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es): 9
Classification code: M6
Hazard identification number (Kemler
No.): 90
Tunnel restriction code:

**Special provisions :** LQ 5  $I \cdot E 1 \cdot ADR : -(SP 375 \le 5 I/kg)$ 

Hazard label(s): 9 / N

Sea transport (IMDG)

**Class(es):** 9 **EmS-No.:** F-A / S-F

**Special provisions :** LQ  $5 \cdot E1 \cdot IMDG : -(SP 2.10.2.7 \le 5 \cdot |/kg)$ 

**Hazard label(s):** 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es):

**Special provisions :** E 1 · IATA : - (SP A197  $\leq$  5 l/kg)

Hazard label(s): 9 / N

#### 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID): Yes Sea transport (IMDG): Yes (P)

Air transport (ICAO-TI / IATA-DGR): Yes

#### 14.6 Special precautions for user

-None

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the Internationa Maritime Organization (IMO) instruments.

#### 14.8 Additional information

The product when carried in packaging of max. 5 l or 5 kg, are not subject to any other provisions of ADR according to the amendment 375.

According to the transport regulations the product is labbeling with the label 9 as also with the symbol "Fish and tree" and in packages > 5 ltr or > 5 kg.

## **SECTION 15: Regulatory information**

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

**EU** legislation

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#### Other regulations (EU)

#### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

#### **National regulations**

#### Water hazard class (WGK)

Class: 2 (Obviously hazardous to water) Classification according to AwSV

#### **Additional information**

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1.

## 15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

#### **SECTION 16: Other information**

#### 16.1 Indication of changes

02. Classification of the substance or mixture  $\cdot$  02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling  $\cdot$  15. Water hazard class (WGK)  $\cdot$  15. Störfallverordnung - For substances contained in the product

## 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report DNEL: Derived No Effect Level EC: European Commission

EC50: Effective Concentration 50% ECHA: European Chemical Agency EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWC: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

LOAEL: Lowest Observed Adverse Effect Level

LOEL: Lowest observable effect level

MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)

MARPOL: Convention for the Preventation of Marine Pollution from Ships

MVZ: molar ratio n.a.: Not applicable n.d.: Not determined n.r.: Not relevant NLP: No Longer Polymers

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NOAEC: No Observed Adverse Effect Concentration NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level OEL: Occupational Exposure Limit PBT: Persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RCP: Reciprocal calculation procedure

REACH: Registration, Evaluation and Authorization of Chemical)

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant

le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit SVHC: Substance of Very High Concern

TLV - TWA: Threshold Limit Value - Time Weighed Average

VOC: Volatile Organic Compounds

vPvB: Very persistent, very bioaccumulative.

## 16.3 Key literature references and sources for data

None

# Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## 16.6 Training advice

None

## 16.7 Additional information

None

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.

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