

Safety Data Sheet*

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1. Identification of the substance/mixture and of the company

1.1. Product identifier

ISOVER Protect BSF

UFI: EJGA-YVJY-H20F-RXV5

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

Recommended use:
Fire protection coating halogen-free

1.3. Details of the supplier of the safety data sheet

Representative in UK

SAINT-GOBAIN ISOVER G+H AG
Bürgermeister-Grünzweig-Straße 1
D - 67059 Ludwigshafen/Rhein
Phone for building construction: ++49 (0)900 – 3501201 (see section 16)
E-Mail: Isover.de/Kontakt
Saint-Gobain Isover UK Limited
White House Industrial Estate
Runcorn, Cheshire, WA7 3DP
Tel +44 (0) 800 032 2555
technicalsupport@saint-gobain.com

1.4. Emergency telephone number

(24-Hour-Number) international:
GBK GmbH - Global Regulatory Compliance +49 (0)6132-84463

2. Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation Nr. 1272/2008:
Hazard categories: Reproductive toxicity: Repr. 2
Hazard Statements: Suspected of damaging fertility.

2.2. Label elements

GB CLP Regulation Nr. 1272/2008:
Hazard components for labelling:
Melamine
Signal word:
Warning
Pictograms:



Hazard statements:
H361f Suspected of damaging fertility.

* According to regulation (EU) 2015/830 of the commission.

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Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 If exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to in accordance with local and national regulations.

Special labeling of certain mixtures:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Additional advice on labelling

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

2.3. Other hazards

Results of PBT and vPvB assessment: Not applicable.

3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization:

Halogen-, solvent-free and pH-neutral water-based dispersion.

Hazardous components:

| CAS No | Chemical name | Quantity | | |
|------------|--|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 108-78-1 | Melamine | | | 10 - < 15 % |
| | 203-615-4 | | 01-2119485947-16 | |
| | Repr. 2; H361f | | | |
| 13463-67-7 | titanium dioxide * | | | 1 - < 5 % |
| | 236-675-5 | 022-006-00-2 | 01-2119489379-17 | |
| | Carc. 2; H351 | | | |
| 9004-78-8 | Phenol polyethoxylate | | | 1 - < 5 % |
| | 500-013-6 | | | |
| | Acute Tox. 4; H302 | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | | | < 0,05 % |
| | 220-120-9 | 613-088-00-6 | 01-2120761540-60 | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H317 H400 H411 | | | |
| 13463-41-7 | Pyrithione zinc | | | < 0.1 % |
| | 236-671-3 | | | |
| | Acute Tox. 2, Acute Tox. 3, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H330 H301 H318 H400 H410 | | | |
| 55965-84-9 | Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | | < 0,0015 % |
| | 911-418-6 | 613-167-00-5 | 01-2120764691-48 | |
| | Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071 | | | |

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

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 9004-78-8 | 500-013-6 | Phenol polyethoxylate | 1 - < 5 % |
| | | oral: LD50 = 500 - 2000 mg/kg | |
| 2634-33-5 | 220-120-9 | 1,2-benzisothiazol-3(2H)-one | < 0,05 % |
| | | oral: ATE = 500 mg/kg Skin Sens. 1; H317: >= 0,05 - 100 | |
| 13463-41-7 | 236-671-3 | Pyrithione zinc | < 0.1 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: ATE = 100 mg/kg M acute; H400: M=100 M chron.; H410: M=10 | |
| 55965-84-9 | 911-418-6 | Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | < 0,0015 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE = 50 mg/kg; oral: ATE = 100 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; H315: >= 0,06 - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6 Skin Sens. 1A; H317: >= 0,0015 - 100 M acute; H400: M=100 M chron.; H410: M=100 | |

Further Information

*) Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter <= 10 µm.

4. First aid measures

4.1. Description of first aid measures

General information:

Remove contaminated clothes and wash before re-use.

After inhalation:

Take affected person to fresh air. In the event of symptoms refer for medical treatment.

After contact with skin:

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lens. If eye irritation persists, consult a specialist.

After ingestion:

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, bot acute and delayed

Suspected of damaging fertility. May produce an allergic reaction.

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

Treat symptoms.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Product itself does not burn. Fire-extinguishing activities according to

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surrounding.

5.2. Special hazards arising from the substance or mixture

No known hazardous decomposition products.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information:

Cool containers at risk with water spray jet. Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:

Avoid contact with eyes, skin or mucous membrane. Use personal protective clothing. Get unprotected persons to safety. Ensure adequate ventilation. Do not inhale the spray mist and vapours. Use breathing apparatus if exposed to vapours/dust/aerosol.

For non-emergency personnel:

Do not breathe aerosol. Avoid contact with skin, eyes and clothing.

For emergency responders:

Use personal protective clothing. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Other information:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

6.4. Reference to other sections

Information for disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Ensure adequate ventilation, especially in closed rooms. In case of release of spray mist or aerosol wear suitable respiratory protection and protective clothing.

Advice on protection against fire and explosion:

Pay attention to general rules of internal fire prevention.

Further information on handling:

Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep containers tightly closed in a cool, well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Notes on joint storage:

Keep away from food, drink and animal food.

Further information on storage conditions:

Protect from heat and direct solar radiation. Keep from freezing.

7.3. Specific end use(s)

Refer to section: 1.2

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|----------------------------------|-----|-------------------|-----------|-----------|--------|
| 115-77-5 | Pentaerythritol, respirable dust | - | 4 | | TWA (8 h) | WEL |
| 13463-67-7 | Titanium dioxide, respirable | - | 4 | | TWA (8 h) | WEL |

Additional advice on limit values

The product contains no relevant quantities of materials with critical values that require monitoring at the workplace.

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures:

Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection:

Protective goggles in the event of risk of splashes.

Hand protection:

Chemical-resistant gloves (EN 374) Protective gloves resistant to chemicals made off viton, minimum coat thickness 0.7 mm, permeation resistance (wear duration) approx. 480 minutes. Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection:

Wear protective clothing.

Respiratory protection:

When working with spray, do not inhale the spray, use breathing apparatus. Filter apparatus, combination filter A – P2.

8.3. Environmental exposure controls

Do not discharge into the drains/surface waters/ground water. Do not discharge into the subsoil/soil.

9. Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state: Pasty
Color: White
Odor: Mild
pH-Value (at 20 °C): ~ 8

Changes in the physical state

Melting point/freezing point: Not determined
Boiling point or initial boiling point and boiling range: Not determined
Flash point: Not applicable

Explosive properties

The product is not explosive.
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined

Oxidizing properties

Not fire-promoting.
Vapour pressure: Not determined
Density (at 20 °C): ~ 1,26 - 1,36 g/cm³
Water solubility: Completely miscible

Solubility in other solvents

Not determined.
Partition coefficient n-Octanol/Water: Not determined
Viscosity / dynamic: 25000 - 27000 mPa·s
(at 20 °C)
Viscosity / kinematic: Not determined

9.2. Other information

No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity with the intended use is not associated with any hazards.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid:

Not data available.

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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11. Toxicological information

11.1. Information in hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution:

No toxicological data available.

Acute toxicity:

Based on available data the classification criteria are not met.

| CAS No | Chemical name | Exposure route | Dose | Species | Source | Method |
|------------|--|--------------------|--------------------------|---------|--------|--------|
| 9004-78-8 | Phenol polyethoxylate | oral | LD50 500 - 2000 mg/kg | Rat | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one | oral | ATE 500 mg/kg | | | |
| 13463-41-7 | Pyrithione zinc | oral | ATE 100 mg/kg | | | |
| | | inhalation vapour | ATE 0,5 mg/l | | | |
| | | inhalation aerosol | ATE 0,05 mg/l | | | |
| 55965-84-9 | Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | oral | ATE 100 mg/kg | | | |
| | | dermal | ATE 50 mg/kg | | | |
| | | inhalation vapour | ATE 0,5 mg/l | | | |
| | | inhalation aerosol | ATE 0,05 mg/l | | | |

Irritation and corrosivity

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

Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one, Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (Melamine)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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.

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

12. Ecological information

12.1. Toxicity

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Ecological data are not available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT- and vPvB assessment

Not applicable.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not flush into surface water or in sanitary sewer system.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations:

Do not discharge into the drains/surface waters/ground water. The waste code number must be agreed with the disposer / manufacturer / competent authority. Waste disposal according to local regulations.

List of wastes code – residues/unused products:

080415

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances; hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packagings are to be treated like the product itself. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for re-use.

14. Transport information

14.1. UN-Number

ADR, ADN, IMDG, ICAO, IATA

No dangerous good in sense of this transport regulation.

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14.2. UN proper shipping name

ADR, ADN, IMDG, ICAO, IATA

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)

ADR, ADN, IMDG, ICAO, IATA

No dangerous good in sense of this transport regulation.

14.4. Packaging group:

ADR, ADN, IMDG, ICAO, IATA

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

Not environmentally hazardous.

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

15. Regulatory information

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

EU regulatory information

2004/42/EG (VOC):

max. 1%

Subcategory acc. to 2004/42/EG:

Interior matt walls and ceilings (Gloss $\leq 25@60^\circ$) - Water-borne coatings, VOC limit value: 30 g/l

Not subject to 2012/18/EU (SEVESO III)

National regulatory information:

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water.

15.2. Chemical safety assessment

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

16. Other Information

The information is based on the current state of our knowledge, but does not constitute a warranty of product characteristics and does not establish a contractual legal relationship.

Relevant H and EUH statements (number and full text)

H301

Toxic if swallowed.

H302

Harmful if swallowed.

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| | |
|--------|--|
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H351 | Suspected of causing cancer. |
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one, Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction. EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |

Classification for mixtures and used evaluation method according to GB CLP Regulation:

Repr. 2; H361f: Calculation method.

Abbreviations and acronyms:

EC Directives: acts of the European Union, part of the secondary Union law

CAS-Nr.: Chemical Abstracts Service

TRGS 510: Technical Rules for Hazardous Substances "storage of hazardous materials in portable tanks"

TRGS 900: Technical Rules for Hazardous Substances "workplace exposure limits"

EN 374: Standard for protective gloves (gloves for protection against chemicals and micro-organisms)

EN 166: European safety standards for eye and face protection (requirements)

STOT: Specific target organ toxicity

AVV: European Waste Catalogue

VOC: Volatile organic compound

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

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

IMDG-Code: International Maritime Code for Dangerous Goods

ADN: sea and inland waterway transport

ICAO: International Civil Aviation Organization

MARPOL 73/78: International Convention for the Prevention of Pollution from Ships

IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

n.a. - not applicable

Further Information:

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. (n.a. = not applicable; n.d. = not determined)

The information in this safety data sheet corresponds to the state of our knowledge at the date of issue and is based on the assumption that the product is used as intended. They describe the product only with regard to safety requirements and do not represent any information on the condition of the product or any guaranteed properties of the product. The purchaser/user of the product is responsible for observing any industrial property rights and relevant statutory provisions.

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