

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

Printing date 22.11.2022

Version number 11 (replaces version 10)

Revision: 22.11.2022

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

· **1.1 Product identifier**

· **Trade name:** INTERCOLL D 3454

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

No further relevant information available.

· **Application of the substance / the mixture** Adhesives

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

WAKOL GmbH  
Bottenbacher Str. 30  
D-66954 Pirmasens  
info@wakol.com  
+49 6331 8001 0

· **Informing department:**

Product safety department.  
msds@wakol.de

· **1.4 Emergency telephone number:**

Emergency CONTACT (24-Hour-Number):  
GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



health hazard

STOT RE 2 H373 May cause damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**



GHS08

· **Signal word** Warning

· **Hazard statements**

H373 May cause damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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

· **3.2 Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

CAS: 56-81-5	glycerol	>5–≤10%
EINECS: 200-289-5	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119471987-18		
CAS: 61790-50-9	Resin acids and Rosin acids, potassium salts	>1–≤2.5%
EINECS: 263-142-4	⚠ Eye Irrit. 2, H319	
CAS: 61790-51-0	Sodium salt of resinous acids	>1–≤2.5%
EINECS: 263-144-5	⚠ Eye Irrit. 2, H319	
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	<0.05%
EINECS: 220-120-9	⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
Reg.nr.: 01-2120761540-60	Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

· **After skin contact** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing** Do not induce vomiting; call for medical help immediately.

· **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.

**SECTION 5: Firefighting measures**

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### SECTION 6: Accidental release measures

**· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

**· 6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Dilute with plenty of water.

**· 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

**· 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.

### SECTION 7: Handling and storage

**· 7.1 Precautions for safe handling** Ensure that suitable extractors are available on processing machines**· Information about protection against explosions and fires:** No special measures required.**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage****· Requirements to be met by storerooms and containers:** No special requirements.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:**

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

**· 7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**· 8.1 Control parameters****· Components with critical values that require monitoring at the workplace:****56-81-5 glycerol**WEL Long-term value: 10 mg/m<sup>3</sup>**· DNELs****Product-specific occupational exposure limits**Inhalative DNEL 0.67 mg/m<sup>3</sup> (workwv (long-term))**61790-50-9 Resin acids and Rosin acids, potassium salts**

Oral DNEL 1.065 mg/kg/day (consumer (long-term))

Dermal DNEL 2.131 mg/kg (workwv (long-term))

DNEL 1.065 mg/kg/day (consumer (long-term))

Inhalative DNEL 10 mg/m<sup>3</sup> (workwv (long-term))**61790-51-0 Sodium salt of resinous acids**

Oral DNEL 1.065 mg/kg/day (consumer (long-term))

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*Dermal DNEL 1.065 mg/kg/day (consumer (long-term))*  
*2.131 mg/kg/day (worker (long-term))*

*Inhalative DNEL 10 mg/m<sup>3</sup> (worker (long-term))*

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

*Dermal DNEL 0.345 mg/kg/day (consumer (long-term))*

*0.966 mg/kg/day (worker (long-term))*

*Inhalative DNEL 1.2 mg/m<sup>3</sup> (consumer (long-term))*

*6.81 mg/m<sup>3</sup> (worker (long-term))*

**· PNECs****61790-50-9 Resin acids and Rosin acids, potassium salts**

*PNEC 0.002 mg/l (freshwater)*

*0.0002 mg/l (sea water)*

*1,000 mg/l (purification plant)*

*PNEC 0.00045 mg/kg (soil)*

*0.0007 mg/kg (sediment (sea water))*

*0.007 mg/kg (sediment (freshwater))*

**61790-51-0 Sodium salt of resinous acids**

*PNEC 0.002 mg/l (freshwater)*

*0.016 mg/l (water - partially release)*

*1,000 mg/l (purification plant)*

*PNEC 0.00045 mg/kg (soil)*

*0.0007 mg/kg (sediment (sea water))*

*0.007 mg/kg (sediment (freshwater))*

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

*PNEC 4.03 µg/l (freshwater)*

*0.403 µg/l (sea water)*

*PNEC 1.03 mg/l (purification plant)*

*PNEC 3 mg/kg (soil)*

*0.00499 mg/kg (sediment (sea water))*

*0.0499 mg/kg (sediment (freshwater))*

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

**· 8.2 Exposure controls**

**· Appropriate engineering controls** No further data; see item 7.

**· Individual protection measures, such as personal protective equipment**

**· General protective and hygienic measures**

*The usual precautionary measures are to be adhered to when handling chemicals.*

*Wash hands before breaks and at the end of work.*

**· Breathing equipment:**

*Only during spraying without adequate removal by suction.*

*Use suitable respiratory protective device only when aerosol or mist is formed.*

*If the occupational exposure limit is exceeded.*

**· Recommended filter device for short term use:** Filter P2

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· **Hand protection**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.35$  mm

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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/face protection**



Tightly sealed goggles

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

According to product specification

· **Smell:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

11 (ISO 976)

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **kinematic (calculated) at 40°C:**

· **dynamic at 20 °C:**

50 mPas (ISO 2555)

· **Solubility**

· **Water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Steam pressure at 20 °C:**

23 hPa

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- **Density and/or relative density**
- **Density at 20 °C** 1.08 g/cm<sup>3</sup> (EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **VOC** 0.00 %
- **Solids content:** 53.5 % (DIN EN 827.8.2)
- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Chlorine compounds

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values that are relevant for classification:**

**56-81-5 glycerol**

Oral LD50 12,600 mg/kg (rat)

Dermal LD50 >18,700 mg/kg (rabbit)

**61790-50-9 Resin acids and Rosin acids, potassium salts**

Oral LD50 2,130 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

**61790-51-0 Sodium salt of resinous acids**

Oral LD50 2,130 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

Oral LD50 1,193 mg/kg (rat)

Dermal LD50 4,115 mg/kg (rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **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** 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**

May cause damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**56-81-5 glycerol**

LC50 >10,000 mg/l (*Leuciscus idus*)

>5,000 mg/l (*Carassius auratus*)

EC50/24h >10,000 mg/l (*Daphnia magna*)

EC50/48h >2,900 mg/l (*Microcystis aerruginosa*)

EC50/72h >10,000 mg/l (*Pseudomonas putida*)

**61790-50-9 Resin acids and Rosin acids, potassium salts**

LC50/96h 5.4 mg/l (*Danio rerio*)

EC50/48h 36 mg/l (*Daphnia magna*)

ErC50/72h >1,000 mg/l (*Pseudokirchneriella subcapitata*)

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**2634-33-5 1,2-benzisothiazol-3(2H)-one**

LC50/96h 2.18 mg/l (*Oncorhynchus mykiss*)

2.2 mg/l (*Lepomis macrochirus*)

EC50/18h 0.4 mg/l (*Pseudomonas putida*)

EC50/48h 2.94 mg/l (*Daphnia magna*)

EC50/72h 0.067 mg/l (*Pseudokirchneriella subcapitata*)

EC0 1 mg/l (*Daphnia magna*)

· **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.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleaning agent:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **VOC (EU)** 0.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 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**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international 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 Harmonised 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1