

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier

KRONES colfix P 78/1
Article number 0900072802

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

Labelling or packaging adhesives

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet
Company

KIC KRONES Internationale Cooperationsgesellschaft mbH
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 Phone +49 9401 70-3020
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 Homepage www.kic-krones.com
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Address enquiries to
Technical information

kic@kic-krones.com

Safety Data Sheet

sdb@chemiebuerro.de

1.4 Emergency telephone number
Advisory body

+49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Hazard pictograms

Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.
 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 advice / attention.

Special labelling

Contains: 1,2-benzisothiazol-3(2H)-one. EUH208 May produce an allergic reaction.

2.3 Other hazards
Environmental hazards

The product/the substance has the Water Hazard Class 1.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
< 30	Resin acids and Rosin acids, sodium salts CAS: 61790-51-0, EINECS/ELINCS: 263-144-5, Reg-No.: 01-2119486963-21-XXXX GHS/CLP: Eye Irrit. 2: H319
0,005 - < 0,05	1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5, EINECS/ELINCS: 220-120-9, EU-INDEX: 613-088-00-6 GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400, M = 1

Comment on component parts

Modified proteine adhesive
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse out mouth and give plenty of water to drink.
Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Forms slippery surfaces with water.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Do not eat or drink when working.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Keep container tightly closed.
Keep container in a well-ventilated place.
Keep away from frost.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored (GB)

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	viscous
Color	beige
Odor	faintly
Odour threshold	No information available.
pH-value	8 - 10 (ISO 976)
pH-value [1%]	not determined
Boiling point [°C]	ca. 100 (Water)
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	The product is not explosive.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	2,3 (20°C)
Density [g/ml]	ca. 1,0 - 1,2 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	ca. > 50.000 mPas (20 °C) (ISO 2555)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Range [%]	Substance
0,005 - < 0,05	1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
	LD50, dermal, Rat: > 5000 mg/kg (EPA OPP 81-2).
	LD50, oral, Rat: 670-784 mg/kg (EPA Guideline).
	LD50, oral, Rat: 1020 mg/kg.
	NOAEL, oral, Rat: 10 mg/kg/90d (OECD 408).
< 30	Resin acids and Rosin acids, sodium salts, CAS: 61790-51-0
	LD50, dermal, Rat: > 2000 mg/kg.
	LD50, oral, Rat: > 2000 mg/kg.

Serious eye damage/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. No classification. Calculation method
Respiratory or skin sensitisation	Toxicological data of complete product are not available. No classification. Calculation method
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. No classification. Calculation method
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. No classification. Calculation method
Mutagenicity	Toxicological data of complete product are not available. No classification.
Reproduction toxicity	Toxicological data of complete product are not available. No classification.
Carcinogenicity	Toxicological data of complete product are not available. No classification.
Aspiration hazard	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
0,005 - < 0,05	1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
	LC50, (96h), Oncorhynchus mykiss: 1,4 mg/l (OECD 203).
	LC50, (96h), Oncorhynchus mykiss: 0,8 mg/l.
	EC50, (72h), Pseudokirchneriella subcapitata: 0,11 mg/l (OECD 201).
	EC50, (48h), Daphnia magna: 1,05 mg/l (OECD 202).
	EC50, (48h), Daphnia magna: 4,4 mg/l.
	EC10, (72h), Pseudokirchneriella subcapitata: 0,04 mg/l (OECD 201).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

No classification on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Waste no. (recommended)

080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150101

150102

150104

150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (1999/13/CE) 0%

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

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

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®/STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

SECTION 3 been added: 1,2-benzisothiazol-3(2H)-one

SECTION 3 been added: Resin acids and Rosin acids, sodium salts

SECTION 2 been added: WARNING

SECTION 2 been added: Ausrufezeichen

SECTION 2 been added: H319 Causes serious eye irritation.

SECTION 2 been added: P280 Wear eye protection / face protection.

SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention.

SECTION 2 deleted: The product does not require a hazard warning label in accordance with EC-directives.

SECTION 2 been added: The product is classified and required to be labelled in accordance with EC-Directives

SECTION 2 been added: Eye Irrit. 2

SECTION 3 deleted: No dangerous components.

SECTION 3 been added: For full text of H-statements: see SECTION 16.

SECTION 4 deleted: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 deleted: Change soaked clothing.

SECTION 5 been added: Cool containers at risk with water spray jet.

SECTION 6 been added: Ensure adequate ventilation.

SECTION 6 been added: Use personal protective equipment.

SECTION 7 been added: Keep container in a well-ventilated place.

SECTION 7 been added: Keep in a cool place. Store in a dry place.

SECTION 8 been added: Protective clothing.

SECTION 8 deleted: Light protective clothing.

SECTION 8 been added: Not required under normal conditions.

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 8 deleted: not applicable

SECTION 9 been added: No information available.

SECTION 9 deleted: not determined

SECTION 11 been added: Calculation method

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 11 deleted: not determined

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 11 been added: No classification.

SECTION 11 been added: Irritant

SECTION 11 deleted: Non-irritant.

SECTION 12 deleted: not determined

SECTION 12 been added: No information available.

SECTION 13 deleted:

SECTION 13 been added:

SECTION 13 deleted:

SECTION 13 been added:

SECTION 16 been added: Observe employment restrictions for young people.

SECTION 16 been added: Calculation method

SECTION 16 deleted: none



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