

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

**1.1 Product identifier**

**KRONES colfix S 4019**  
**Article number 0902761848, 0903246953**

**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  
Böhmerwaldstraße 5  
93073 Neutraubling / GERMANY  
Phone +49 9401 70-3020  
Fax +49 9401 70-3696  
Homepage www.kic-krones.com  
E-mail kic@kic-krones.com

**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**

Skin Sens. 1: H317 May cause an allergic skin reaction.

**2.2 Label elements**

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

**Hazard pictograms**



**Signal word**

WARNING

**Contains:**

Polypropylenglycol-Alkylphenylethere

1,2-benzisothiazol-3(2H)-one

Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1)

**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P261 Avoid breathing vapours / spray.

P280 Wear protective gloves / protective clothing.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P363 Wash contaminated clothing before reuse.

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

**2.3 Other hazards**

**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
< 5	Polypropylenglycol-Alkylphenylethere CAS: 9064-13-5 GHS/CLP: Skin Sens. 1B: H317
< 0,2	Zinc oxide CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7, Reg-No.: 01-2119463881-32-XXXX GHS/CLP: Aquatic Chronic 1: H410, M = 1
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
0,00015 - < 0,0015	Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1) CAS: 55965-84-9, EU-INDEX: 613-167-00-5 GHS/CLP: Acute Tox. 3: H301 H311 H331 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 10

#### Comment on component parts

Aqueous solution of polyacrylate  
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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse out mouth and give plenty of water to drink. Seek medical advice. Do not induce vomiting.

#### 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

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Irritant gases/vapours.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

Forms slippery surfaces with water.

Ensure adequate ventilation.

Use personal protective equipment.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Retain and dispose of contaminated wash water.

### 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 with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Do not eat or drink when working.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

### 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**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (GB)**

not applicable

**DNEL**

Range [%]	Substance
< 0,2	Zinc oxide, CAS: 1314-13-2
	Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 5 mg/m <sup>3</sup> .
	general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 2,5 mg/m <sup>3</sup> .
	general population, dermal, Long-term - systemic effects: 83 mg/kg bw/d.

**PNEC**

Range [%]	Substance
< 0,2	Zinc oxide, CAS: 1314-13-2
	soil, 35,6 mg/kg dw.
	sediment (seaater), 56,5 mg/kg dw.
	sediment (freshwater), 117,8 mg/kg dw.
	sewage treatment plants (STP), 100 µg/L.
	seawater, 6,1 µg/L.
	freshwater, 20,6 µg/L.

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	If there is a risk of splashing: safety glasses
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374).
<b>Skin protection</b>	Long-sleeved work clothes.
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale vapours. 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.
<b>Respiratory protection</b>	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	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	liquid
Color	opaque
Odor	faintly characteristic
Odour threshold	No information available.
pH-value	7 - 9 (20 °C) (ISO 976)
pH-value [1%]	No information available.
Boiling point [°C]	ca. 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
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]	1,0 - 1,2 (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	> 50000 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

In the event of fire: See SECTION 5.

**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).
< 5	Polypropylenglycol-Alkylphenylethere, CAS: 9064-13-5
	LD50, oral, Rat: > 5000 mg/kg.
< 0,2	Zinc oxide, CAS: 1314-13-2
	LD50, dermal, Rat: > 2000 mg/kg bw.
	LD50, oral, Rat: > 15000 mg/kg (IUCLID).
	LC50, inhalative, Rat: > 5,7 mg/l (4 h) (Lit.).
0,00015 - < 0,0015	Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1), CAS: 55965-84-9
	LD50, dermal, Rabbit: 660 mg/kg.
	LD50, oral, Rat: 457 mg/kg.
	LC50, inhalative, Rat: 0,33 mg/l/4h.

<b>Serious eye damage/irritation</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Toxicological data of complete product are not available. Sensitizing. Calculation method
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	

The product was classified on the basis of the calculation procedure of the preparation directive.  
 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.
< 5	EC10, (72h), Pseudokirchneriella subcapitata: 0,04 mg/l (OECD 201).
	Polypropylenglycol-Alkylphenylethere, CAS: 9064-13-5
	LC50, (96h), Leuciscus idus: 10 - 100 mg/l.
< 0,2	EC50, (48h), Daphnia magna: > 100 mg/l (OECD 202).
	Zinc oxide, CAS: 1314-13-2
0,00015 - < 0,0015	EC50, (72h), Selenastrum capricornutum: 0,17 mg/l (Lit.).
	Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1), CAS: 55965-84-9
	LC50, (96h), Lepomis macrochirus: 0,28 mg/l.
	EC50, (72h), Selenastrum capricornutum: 0,018 mg/l.
	EC50, (48h), Daphnia magna: 0,16 mg/l.

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	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

Coordinate disposal with the disposal contractor/authorities if necessary.

**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)** 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

<b>EEC-REGULATIONS</b>	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
<b>TRANSPORT-REGULATIONS</b>	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
<b>NATIONAL REGULATIONS (GB):</b>	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)	0,1 %

### 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)

H314 Causes severe skin burns and eye damage.  
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.  
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.  
H410 Very toxic to aquatic life with long lasting effects.

### 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** Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

**Modified position**

SECTION 2 been added: Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1)

SECTION 3 been added: Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1)

SECTION 5 been added: Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

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 7 been added: Use only in well-ventilated areas.

SECTION 7 deleted: No special measures necessary if used correctly.

SECTION 8 been added: If there is a risk of splashing:

SECTION 11 deleted: Calculation method

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.



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