

# KRONES colfix S4041

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)  
Issue date: 3/3/2022 Revision date: 3/3/2022 Version: 1.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : KRONES colfix S4041

#### 1.2. Other means of identification

Other means of identification : No information available.

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Adhesive for labelling.  
Restrictions on use : No information available.

#### 1.4. Supplier's details

##### Supplier

KRONES Trading (Taicang) Co. Ltd.  
No. 9 Ning Bo Dong Lu Taicang Jiangsu Suzhou  
215400  
T +86-512-53739300 - F -  
info@cn.krones.com

#### 1.5. Emergency phone number

Emergency number : +86-400-120-6011

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Skin corrosion/irritation, Category 3 H316  
Skin sensitisation, category 1A H317  
Hazardous to the aquatic environment — Acute Hazard, Category 3 H402

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Causes mild skin irritation. May cause an allergic skin reaction. Harmful to aquatic life

#### 2.2. GHS Label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) : Warning

Hazard statements (GHS UN) : H316 - Causes mild skin irritation.  
H317 - May cause an allergic skin reaction.  
H402 - Harmful to aquatic life.

Precautionary statements (GHS UN) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P333+P317 - If skin irritation or rash occurs: Get medical help.  
P321 - Specific treatment see supplemental first aid instruction on this label.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents/container in accordance with local/regional/national/international

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regulation.

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Name	Product identifier	%
1,2,3-Propanetriol	CAS-No.: 56-81-5	1 - < 10
Ammonium hydroxide	CAS-No.: 1336-21-6	0.25 - < 1
3(2H)-Isothiazolone, 2-methyl-	CAS-No.: 2682-20-4	0.0025 - < 0.025

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Causes mild skin irritation. May cause an allergic skin reaction.
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### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Foam, dry powder, carbon dioxide, water spray.
Unsuitable extinguishing media	: No additional information available.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released, such as carbon monoxide, carbon dioxide, nitrogen oxides, toxic and irritating gases.

### 5.3. Special protective actions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Accidental release measures

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

General measures : Evacuate personnel to a safe area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.  
Other information : Dispose of materials or solid residues at an authorized site.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Evacuate personnel to a safe area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas. Wear personal protective equipment.  
Hygiene measures : Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry and cool place. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep locked up and out of reach of children. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container.  
Incompatible materials : Strong oxidizers, peroxides, acids, alkalis.  
Storage temperature : 10 - 30 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves (EN 374).  
Eye protection : Safety glasses.

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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Filter: A-P2

### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: Yellowish
Odour	: Ammoniacal
Odour threshold	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7.0 - 9.0
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: 1,2,3-Propanetriol (56-81-5): -1.76 Ammonium hydroxide (1336-21-6): -1.14 3(2H)-Isothiazolone, 2-methyl- (2682-20-4): -0.5 (OECD 107)
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.05 g/mL
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Not available
Viscosity, dynamic	: 50000 - 100000 mPa*s
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing
Particle size	: Not applicable.

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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Excessive heat. Incompatible materials.

### 10.5. Incompatible materials

Strong oxidizers, peroxides, acids, alkalis.

### 10.6. Hazardous decomposition products

Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 1,2,3-Propanetriol (56-81-5)

LD50 oral rat	12600 mg/kg; 27200 mg/kg
LD50 dermal rabbit	> 10 g/kg; 56750 mg/kg
LC50 Inhalation - Rat	> 2.75 mg/L/4 h

#### Ammonium hydroxide (1336-21-6)

LD50 oral rat	350 mg/kg (OECD 401)
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#### 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)

LD50 oral rat	120 mg/kg
LD50 dermal rabbit	200 mg/kg; 242 mg/kg (OECD 402)
LC50 Inhalation - Rat	0.11 mg/L/4 h (OECD 403)

Skin corrosion/irritation : Causes mild skin irritation.  
1,2,3-Propanetriol: not irritating (24 h, rabbit)  
Ammonium hydroxide: corrosive (OECD 404)  
3(2H)-Isothiazolone, 2-methyl-: corrosive (4 h, rabbit, OECD 404)

Serious eye damage/irritation : Not classified  
1,2,3-Propanetriol: not irritating (rabbit, OECD 405)  
Ammonium hydroxide: corrosive.

Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Ammonium hydroxide: not sensitising (guinea pig)  
3(2H)-Isothiazolone, 2-methyl-: sensitising (guinea pig, OECD 406)

Germ cell mutagenicity : Not classified  
1,2,3-Propanetriol: negative (OECD 471); negative (OECD 473); negative (OECD 476);  
negative (OECD 482); negative (mouse, OECD 474)  
Ammonium hydroxide: negative (OECD 471); negative (mouse, OECD 474)  
3(2H)-Isothiazolone, 2-methyl-: negative (OECD 471); negative (OECD 473); negative  
(OECD 476); negative (mouse, OECD 474) ; negative (rat, OECD 486)

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life.  
Hazardous to the aquatic environment, short-term (acute) : Harmful to aquatic life.

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Hazardous to the aquatic environment, long-term (chronic) : Not classified

1,2,3-Propanetriol (56-81-5)	
LC50 - Fish [1]	51 - 57 mL/L/96 h (Oncorhynchus mykiss)
LC50 - Fish [2]	> 44000 mg/L/96 h (Pimephales promelas)
EC50 - Crustacea [1]	> 10000 mg/L/24 h (Daphnia magna, OECD 202)
EC50 - Algae [1]	> 10000 mg/L (Scenedesmus quadricauda, OECD 201)

Ammonium hydroxide (1336-21-6)	
LC50 - Fish [1]	8.2 mg/L/96 h (Pimephales promelas)
LC50 - Fish [2]	0.16 - 1.1 mg/L/96 h (Oncorhynchus mykiss, OECD 203)
EC50 - Crustacea [1]	0.66 mg/L/48 h (water flea)
EC50 - Crustacea [2]	0.66 mg/L/48 h (Daphnia pulex)
EC50 - Crustacea [3]	25.4 mg/L/48 h (Daphnia magna, OECD 202)
EC50 - Algae [1]	> 1000 mg/L/72 h (Skeletonema costatum, ISO 10253)

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
LC50 - Fish [1]	4.77 mg/L/96 h (Oncorhynchus mykiss, OECD 203)
EC50 - Crustacea [1]	0.93 mg/L/48 h (Daphnia magna, OECD 202)
EC50 - Algae [1]	0.22 mg/L/72 h (Scenedesmus quadricauda, OECD 201)

### 12.2. Persistence and degradability

1,2,3-Propanetriol (56-81-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 - 94%

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Persistence and degradability	Inherently biodegradable.
Biodegradation	97 %/14 d (OECD 302 B)
Persistence and degradability	Readily biodegradable.
Biodegradation	> 70 % (OECD 309)

### 12.3. Bioaccumulative potential

1,2,3-Propanetriol (56-81-5)	
Partition coefficient n-octanol/water (Log Kow)	-1.76
BCF - Fish [1]	No bioaccumulation

Ammonium hydroxide (1336-21-6)	
Partition coefficient n-octanol/water (Log Kow)	-1.14

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Partition coefficient n-octanol/water (Log Kow)	-0.5 (OECD 107)

### 12.4. Mobility in soil

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Mobility in soil	No additional information available

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### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport	Not regulated for transport	Not regulated for transport
<b>14.2. UN Proper Shipping Name</b>		
Not applicable.	Not applicable.	Not applicable.
<b>14.3. Transport hazard class(es)</b>		
Not applicable.	Not applicable.	Not applicable.
<b>14.4. Packing group</b>		
Not applicable.	Not applicable.	Not applicable.
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

### 14.6. Special precautions for user

#### UN RTDG

No data available

#### IMDG

No data available

#### IATA

No data available

### 14.7. Transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

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### 1,2,3-Propanetriol (56-81-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Ammonium hydroxide (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

## SECTION 16: Other information

Issue date : 03/03/2022  
Revision date : 03/03/2022

### Indication of changes:

No information available.

Abbreviations and acronyms : SDS - Safety Data Sheet  
LC50 - Median lethal concentration  
LD50 - Median lethal dose  
EC50 - Median effective concentration  
NOEC - No-Observed Effect Concentration  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods

Data sources : ECHA, Loli.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No information available.



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Full text of H-statements:	
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H402	Harmful to aquatic life

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.