

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)  
Issue date: 3/2/2022 Revision date: 3/2/2022 Version: 1.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : KRONES colfix HM VP 2056

#### 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 packaging.  
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 sensitisation, Category 1 H317  
Full text of H-statements: see section 16  
Adverse physicochemical, human health and environmental effects : May cause an allergic skin reaction.

#### 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) : H317 - May cause an allergic skin reaction.  
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.  
P280 - Wear protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P333+P313 - 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 regulation.

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

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

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

Name	Product identifier	%
Rosin	CAS-No.: 8050-09-7	1 - < 10
Vinyl acetate	CAS-No.: 108-05-4	0.1 - < 0.25

### 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. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: May cause an allergic skin reaction.
------------------	--

#### 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	: Use extinguishing media appropriate for surrounding fire.
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, 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.
--------------------------------	--

### 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

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

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 dust formation. Avoid breathing dust.

## 6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses.

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

For containment : No additional information available.  
Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.  
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. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Avoid dust formation. Avoid breathing dust. 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. Keep only in original container.  
Incompatible materials : No additional information available.  
Storage temperature : ≤ 49 °C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Rosin (8050-09-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.001 mg/m <sup>3</sup> (inhalable particulate matter)
ACGIH chemical category	dermal sensitizer
Vinyl acetate (108-05-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Vinyl acetate
IOEL TWA	17.6 mg/m <sup>3</sup>
IOEL TWA [ppm]	5 ppm
IOEL STEL	35.2 mg/m <sup>3</sup>
IOEL STEL [ppm]	10 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	10 ppm

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

Vinyl acetate (108-05-4)	
ACGIH OEL STEL [ppm]	15 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans

### 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.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.

### 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	: Solid
Appearance	: Solid
Colour	: Yellow
Odour	: Odourless
Odour threshold	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 260 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 260.00 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Rosin (8050-09-7): > 3 - 6.2 (OECD 117) Vinyl acetate (108-05-4): 0.73
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0.97 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Not available
Viscosity, dynamic	: 900 - 1200 mPa*s, 1000 mPa*s
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing
Particle size	: Not available

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

No additional information available

## SECTION 10: Stability and reactivity

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

### 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

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

#### Rosin (8050-09-7)

LD50 oral rat	7600 mg/kg
LD50 dermal rabbit	> 2500 mg/kg
LC50 Inhalation - Rat	1.5 mg/L/4 h

#### Vinyl acetate (108-05-4)

LD50 oral rat	2900 mg/kg, 3470 mg/kg
LD50 dermal rabbit	2335 mg/kg, 7440 mg/kg
LC50 Inhalation - Rat [ppm]	3680 ppm/4 h, 15.8 mg/L/4 h

Skin corrosion/irritation	: Not classified Rosin: not irritating (rabbit, OECD 404) Vinyl acetate: not irritating (rabbit, OECD 404)
Serious eye damage/irritation	: Not classified Rosin: not irritating (rabbit, OECD 405) Vinyl acetate: not irritating (rabbit, OECD 405)
Respiratory or skin sensitisation	: May cause an allergic skin reaction. Rosin: May cause an allergic skin reaction Vinyl acetate: not sensitising (skin, mouse, OECD 429)
Germ cell mutagenicity	: Not classified Rosin: negative (OECD 471) Vinyl acetate: negative (OECD 471)
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

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### Rosin (8050-09-7)

EC50 - Crustacea [1]	3.8 - 5.4 mg/L/48 h (Daphnia magna)
----------------------	-------------------------------------

#### Vinyl acetate (108-05-4)

LC50 - Fish [1]	14 mg/L/96 h (Pimephales promelas)
LC50 - Fish [2]	15.04 - 21.54 mg/L/96 h (Lepomis macrochirus)
EC50 - Crustacea [1]	12.6 mg/L/48 h (Daphnia magna, OECD 202)
EC50 - Algae [1]	12.7 mg/L/72 h (Pseudokirchneriella subcapitata, OECD 201)

### 12.2. Persistence and degradability

#### Rosin (8050-09-7)

Persistence and degradability	Readily biodegradable.
Biodegradation	71% (OECD 301 D)

#### Vinyl acetate (108-05-4)

Persistence and degradability	Readily biodegradable.
Biodegradation	82 - 98% (OECD 301 C)

### 12.3. Bioaccumulative potential

#### Rosin (8050-09-7)

Partition coefficient n-octanol/water (Log Kow)	> 3 - 6.2 (OECD 117)
---	----------------------

#### Vinyl acetate (108-05-4)

Partition coefficient n-octanol/water (Log Kow)	0.73
---	------

### 12.4. Mobility in soil

#### KRONES colfix HM VP 2056

Mobility in soil	No additional information available
------------------	-------------------------------------

### 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

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

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

#### Rosin (8050-09-7)

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 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 INSQ (Mexican National Inventory of Chemical Substances)

# KRONES colfix HM VP 2056

## Safety Data Sheet

According to the United Nations GHS (Rev. 9, 2021)

### Vinyl acetate (108-05-4)

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)  
Japanese Pollutant Release and Transfer Register Law (PRTR 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)

### SECTION 16: Other information

Issue date : 02/03/2022  
Revision date : 02/03/2022

#### 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.

#### Full text of H-statements:

H317	May cause an allergic skin reaction
------	-------------------------------------

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.