

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

**KRONES colfix HM 8016**  
**Article number 0901456346**

**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](http://www.kic-krones.com)  
 E-mail [kic@kic-krones.com](mailto:kic@kic-krones.com)

**Address enquiries to**
**Technical information**

[kic@kic-krones.com](mailto:kic@kic-krones.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.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**

No classification.

**2.2 Label elements**

The product does not require a hazard in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

**Hazard pictograms**

none

**Signal word**

none

**Hazard statements**

none

**Precautionary statements**

none

**2.3 Other hazards**
**Physico-chemical hazards**

Combustible.

**Human health dangers**

Heated materials cause burns on the skin.  
 For thermal decomposition to high temperature are formed irritating smoke.

**Environmental hazards**

The product/the substance is not hazardous to water.

**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.

#### Comment on component parts

No dangerous components.  
Hot melt adhesive based on thermoplastic polymers, resins, wax and antioxidants.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

### 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.

##### Skin contact

When in contact with the skin, clean with soap and water.  
In case of burning: After contact with molten product cool quickly with cold water or sterile salt solution and protect with gauze.  
Do not pull solidified product from skin forcibly.  
Supply with medical care.

##### 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

In the event of symptoms seek medical treatment.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

#### 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

foam, dry powder, water spray jet, carbon dioxide

##### 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)  
Not combusted hydrocarbons.  
Carbon dioxide (CO<sub>2</sub>)  
Acetic acid.

#### 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

High risk of slipping due to leakage/spillage of product.

## 6.2 Environmental precautions

No special measures necessary.

## 6.3 Methods and material for containment and cleaning up

Allow to solidify.

Take up mechanically.

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

Use only in well-ventilated areas.

The normal safety precautions for handling of molten, heated products must be observed.

The product should only be heated to recommended temperatures.

Take precautionary measures against static discharges.

The product is combustible.

Do not eat, drink, smoke or take drugs at work.

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.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: 5-30 °C

## 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 (UT)

not applicable

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Protection adapted to the manipulation of the fused product (danger of burning).
<b>Eye protection</b>	Safety glasses.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. Gloves (heat-resistant).
<b>Skin protection</b>	light protective clothing  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. Do not inhale smokes formed during heat treatment. Avoid contact of molten material with skin. Avoid contact with eyes.
<b>Respiratory protection</b>	Short term: filter apparatus, filter A.
<b>Thermal hazards</b>	See product information.
<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

<b>Form</b>	solid
<b>Color</b>	light yellow
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	> 250/ >482°F
<b>Flash point [°C]</b>	> 250/ >482°F
<b>Flammability [°C]</b>	Not highly flammable. Not explosive.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidizing properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	0,98 (23°C / 73,4°F)
<b>Bulk density [kg/m³]</b>	No information available.
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	1500 mPas (Brookfield viscosity, 160 °C / 320°F)
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	78 - 88 °C/ 172.4 - 190.4 °F
<b>Autoignition temperature [°C]</b>	> 250/ >482°F
<b>Decomposition temperature [°C]</b>	> 250/ >482°F

### 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**

To avoid thermal decomposition, do not overheat.  
Avoid temperatures above 200°C (392°F).

**10.5 Incompatible materials**

Oxidizing agent

**10.6 Hazardous decomposition products**

Irritant gases/vapours.  
In the event of fire: See SECTION 5.

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

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 5000 mg/kg.

<b>Serious eye damage/irritation</b>	Non-irritant.
<b>Skin corrosion/irritation</b>	Non-irritant.
<b>Respiratory or skin sensitisation</b>	Non-sensitizing.
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. No classification. Calculation method
<b>Specific target organ toxicity — repeated exposure</b>	Toxicological data of complete product are not available. No classification. Calculation method
<b>Mutagenicity</b>	Toxicological data of complete product are not available. No classification. Calculation method
<b>Reproduction toxicity</b>	Toxicological data of complete product are not available. No classification. Calculation method
<b>Carcinogenicity</b>	Toxicological data of complete product are not available. No classification. Calculation method
<b>Aspiration hazard</b>	Toxicological data of complete product are not available. No classification.
<b>General remarks</b>	

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

**SECTION 12: Ecological information****12.1 Toxicity**



**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**

Accumulation in organisms is not expected.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

The product is insoluble in water.  
 No classification on the basis of the calculation procedure of the preparation directive.  
 Ecological data of complete product are not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities (40CFR 261).

**Product**

For recycling, consult manufacturer.

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.  
 Packaging that cannot be cleaned should be disposed of as for product.

**SECTION 14: Transport**

**14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name

**14.2 UN proper shipping name**

<b>Transport by land according to ADR/RID</b>	NO DANGEROUS GOODS
<b>Inland navigation (ADN)</b>	NO DANGEROUS GOODS
<b>Marine transport in accordance with IMDG</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>Air transport in accordance with IATA</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>DOT Road Shipment Information (49 CFR)</b>	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

#### National regulations

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

Not determined.

- SARA, 311

Not determined.

- SARA, 313

Not determined.

- CA Proposition 65

not determined.

- TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA

This product in its chemical composition is according to standard of FDA 21 CFR 175.105 "Adhesives for indirect food contact" for Food Contact Substances (FCS).

This product is only allowed for contact with food type I, II, IV-B, VI, VII-B und VIII (21 CFR 177.1810). These are food without free oils and fats .

#### American Conference of Governmental Industrial Hygienists - ACGIH

Not determined.

#### International Agency for Research on Cancer IARC

Not determined.

#### National Toxicology Program - NTP

This product is not named NTP - National Toxicology Program.

#### HAP-VOC

VOC-content: 0,0 %

HAP's are not used by manufacturing of this product. It cannot be excluded that traces of substances such as vinyl acetate or styrene are detected. Basic polymers of Hotmelts are manufactured of such monomers.

#### Transport-regulations

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

#### Other Right to Know Laws

**SECTION 16: Other information****16.1 Abbreviations and acronyms:**

ACGIH = American Conference of Governmental Industrial Hygienists;  
 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;  
 CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;  
 CFR = Code of Federal Regulations;  
 CPR = Controlled Products Regulations;  
 DMEL = Derived Minimum Effect Level;  
 DNEL = Derived No Effect Level;  
 DOT = Department of Transportation;  
 EC50 = Median effective concentration;  
 EPA = Environmental Protection Agency;  
 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;  
 IARC = International Agency of Research on Cancer;  
 IATA = International Air Transport Association;  
 TSCA = Toxic Substance Control Act;  
 HMIS = Hazardous Materials Identification System;  
 NFPA = National Fire Protection Association;  
 NIOSH = National Institute for Occupational Safety and Health;  
 OSHA = Occupational Safety and Health Administration;  
 LC50 = Lethal concentration, 50%;  
 LD50 = Median lethal dose, 50%;  
 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;  
 SARA = Superfund Amendments and Reauthorization Act;  
 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;

**16.2 Ratings****HMIS Ratings**

<b>HEALTH</b>	<b>0</b>	0 - Minimal Hazard
<b>FLAMMABILITY</b>	<b>1</b>	1 - Slight Hazard
<b>REACTIVITY</b>	<b>1</b>	1 - Slight Hazard
<b>PERSONAL PROTECTION</b>	<b>X</b>	X - Personal protection rating to be supplied by user depending on use conditions

**NFPA Ratings**

<b>1</b>
<b>0</b> <b>1</b>

TOP, FLAMMABILITY: 1 - Slight Hazard LEFT,  
 HEALTH: 0 - Minimal Hazard RIGHT,  
 REACTIVITY: 1 - Slight Hazard BOTTOM,  
 SPECIAL NOTICE: -



**Modified position**

SECTION 2 been added: none

SECTION 2 been added: none

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

SECTION 4 deleted: not applicable

SECTION 4 been added: Ensure supply of fresh air.

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: If eye irritation persists: Get medical advice/attention.

SECTION 4 deleted: No special measures necessary.

SECTION 9 deleted: not applicable

SECTION 9 been added: No information available.

SECTION 10 been added: Oxidizing agent

SECTION 10 deleted: No information available.

SECTION 11 deleted: not determined

SECTION 11 been added: Non-irritant.

SECTION 11 deleted: not determined

SECTION 11 been added: Non-irritant.

SECTION 11 deleted: not determined

SECTION 11 been added: Non-sensitizing.

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: Calculation method

SECTION 12 been added: No information available.

SECTION 12 been added: Accumulation in organisms is not expected.

SECTION 12 deleted: No information available.

SECTION 12 deleted: not determined

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