

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

KRONES colfix HM 6001
Article number 0901110839

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@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 warning label in accordance with EC-directives.

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

2.3 Other hazards

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 | In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. |
| 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 (CO₂)
Acetic acid.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
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

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 (GB)

not applicable

8.2 Exposure controls

| | |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional advice on system design | Ensure adequate ventilation on workstation. Protection adapted to the manipulation of the fused product (danger of burning). |
| Eye protection | Safety glasses. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. Gloves (heat-resistant). |
| Skin protection | light protective clothing |
| Other | 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. |
| Respiratory protection | Short term: filter apparatus, filter A. |
| 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 | solid |
| Color | light yellow |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | > 250 |
| Flash point [°C] | > 250 |
| Flammability (solid, gas) [°C] | no |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidizing properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/ml] | 0,98 (23°C / 73,4°F) |
| Bulk density [kg/m ³] | No information available. |
| Solubility in water | insoluble |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | ca. 1.300 - 1.900 mPas (Brookfield RVTD Sp SC4-27, 140 °C) |
| Relative vapour density determined in air | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | 52 - 62 |
| Autoignition temperature [°C] | > 250 |
| Decomposition temperature [°C] | > 250 |

9.2 Other information

none

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

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| | |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Serious eye damage/irritation | Non-irritant. |
| Skin corrosion/irritation | Non-irritant. |
| Respiratory or skin sensitisation | Non-sensitizing. |
| 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. Calculation method |
| Reproduction toxicity | Toxicological data of complete product are not available. No classification. Calculation method |
| Carcinogenicity | Toxicological data of complete product are not available. No classification. Calculation method |
| Aspiration hazard | Toxicological data of complete product are not available. No classification. |
| General remarks | |

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

| | |
|----------------------------------------------|---------------------------|
| Behaviour in environment compartments | No information available. |
| Behaviour in sewage plant | No information available. |
| Biological degradability | 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 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) 080410
080499

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

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 | none |
| - VOC (1999/13/CE) | 0,0 % |

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 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

16.2 Other information

Classification procedure

Modified position

SECTION 2 been added: none
SECTION 2 been added: none
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: No special measures necessary.
SECTION 9 deleted: not applicable
SECTION 9 been added: No information available.
SECTION 10 deleted: No information available.
SECTION 10 been added: Oxidizing agent
SECTION 11 been added: Non-sensitizing.
SECTION 11 deleted: not determined
SECTION 11 been added: Non-irritant.
SECTION 11 deleted: not determined
SECTION 11 deleted: not determined
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 11 been added: Non-irritant.
SECTION 12 deleted: not determined
SECTION 12 been added: No information available.
SECTION 12 deleted: No information available.
SECTION 12 been added: Accumulation in organisms is not expected.

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