

**SAFETY DATA SHEET**

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

**Kövuifix® Rekord**

Version	Revision Date:	SDS Number:	Date of last issue: 30.08.2022
1.1	16.03.2023	100000018794	Date of first issue: 30.08.2022

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

Trade name : Kövuifix® Rekord

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Sub-  
stance/Mixture : Adhesive

Recommended restrictions : For industrial use only.  
on use

**1.3 Details of the supplier of the safety data sheet**

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13  
PT-4486-851 Mindelo - Vila do Conde  
+351 229 288 200

E-mail address of person : EU-MSDS@hbfuller.com  
responsible for the SDS

**1.4 Emergency telephone number**

Emergency telephone number : +44 1235 239 670 (24 hours)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

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Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.

**Response:**

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Hazardous components which must be listed on the label:**

butanone  
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
acetone

**Additional Labelling**

EUH208 Contains Rosin. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
butanone	78-93-3 201-159-0 606-002-00-3 01-2119457290-43-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 30 - < 50
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0 921-024-6 01-2119475514-35-0000	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Skin Irrit. 2; H315 STOT SE 3; H336 (Respiratory system)	>= 20 - < 25
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
n-hexane	110-54-3 203-777-6 601-037-00-0 01-2119480412-44-0000	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0,25 - < 1
Rosin	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32-0000	Skin Sens. 1; H317	>= 0,25 - < 1

For explanation of abbreviations see section 16.

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

- General advice : If on clothes, remove clothes.  
Move the victim to fresh air.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may even occur after several hours;  
therefore medical observation for at least 48 hours after the  
accident.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get  
medical attention.  
In case of unconsciousness bring patient into stable side posi-  
tion for transport.
- In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical atten-  
tion if eye irritation develops or persists.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Rinse mouth with water.  
If conscious, drink plenty of water.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.

##### 4.2 Most important symptoms and effects, both acute and delayed

None known.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No further relevant information available.

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#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.  
Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media : Water with a full water jet

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

Specific hazards during fire-fighting : No further relevant information available.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : No special protective measures against fire required.

Further information : In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
Use breathing protection against the effects of fumes/dust/aerosol.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
Prevent the material from reaching sewage system, holes and cellars.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Non-sparking tools should be used.  
Ensure adequate ventilation.  
Send for recovery or disposal in suitable containers.  
Dispose of contaminated material as waste according to sec-

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tion 13.

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of dust and aerosols.  
Use only with adequate ventilation.  
Take note of emission threshold.  
Use solvent-proof equipment.  
Ensure that suitable extractors are available on processing machines.  
Handle with care.  
Keep eye wash bottle available on working place.  
Avoid release to the environment.  
Keep away from children.
- Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mixtures in air. Highly volatile, flammable constituents are released during processing. In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

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

- Requirements for storage areas and containers : Keep dark, cool and dry. Store in cool place.
- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

#### 7.3 Specific end use(s)

- Specific use(s) : No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering measures

Please take care on national and local requirements.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Remarks : The glove material has to be impermeable and resistant to the product/the substance/the preparation.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The gloves need to be disposed after the penetration time and replaced by new ones.  
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

#### **For the permanent contact gloves made of the following materials are suitable:**

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

#### **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

#### **As protection from splashes gloves made of the following materials are suitable:**

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable

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nitrile glove.

Skin and body protection	:	Protective clothing
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Ensure that suitable extractors are available on processing machines.
Protective measures	:	Keep away from food, drink and animal feedingstuffs. Instantly remove any soiled and impregnated garments. Wash hands before breaks and immediately after handling the product. Avoid contact with the eyes and skin. Store protective clothing separately.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	brown
Odour	:	solvent-like
Odour Threshold	:	is not determined
pH	:	substance/mixture is non-polar/aprotic
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	56 °C
Flash point	:	-17 °C
Evaporation rate	:	is not determined
Vapour pressure	:	240 hPa (20 °C)
Relative vapour density	:	is not determined



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Density : 0,83 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : not miscible or difficult to mix

Partition coefficient: n-  
octanol/water : no data available

Auto-ignition temperature : is not determined

Decomposition temperature : Not applicable

Viscosity  
Viscosity, dynamic : 2.100 mPa.s (20 °C)

Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

#### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No decomposition if used according to the specifications.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Develops readily flammable vapours/fumes.

### 10.4 Conditions to avoid

Conditions to avoid : No further relevant information available.

### 10.5 Incompatible materials

Materials to avoid : No further relevant information available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Based on available data, the classification criteria are not met.  
Acute inhalation toxicity : Based on available data, the classification criteria are not met.  
Acute dermal toxicity : Based on available data, the classification criteria are not met.

##### Components:

##### n-hexane:

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.000 mg/kg

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## SECTION 12: Ecological information

### 12.1 Toxicity

##### Components:

##### n-hexane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,1 - 2,98 mg/l  
Exposure time: 96 Hours  
Test Type: flow-through test

##### Rosin:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,8 - 5,4 mg/l  
Exposure time: 48 Hours  
Test Type: static test

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

##### Product:

Mobility : Medium: Soil

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Remarks: Do not allow product to reach ground water, water bodies or sewage system.

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Do not dispose of waste into sewer.  
Hand over to disposers of hazardous waste.  
The generation of waste should be avoided or minimized wherever possible.  
Incinerate under controlled conditions in accordance with all local and national laws and regulations.  
Disposal must be made according to official regulations.

Contaminated packaging : Disposal must be made according to official regulations.

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## SECTION 14: Transport information

### 14.1 UN number

**ADN** : UN 1133  
**ADR** : UN 1133  
**RID** : UN 1133  
**IMDG** : UN 1133

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**IATA** : UN 1133

**14.2 UN proper shipping name**

**ADN** : ADHESIVES  
**ADR** : ADHESIVES  
**RID** : ADHESIVES  
**IMDG** : ADHESIVES  
**IATA** : Adhesives

**14.3 Transport hazard class(es)**

**ADN** : 3  
**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

**14.4 Packing group**

**ADN**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)  
Remarks : This product is eligible to ship using the Limited Quantity exception when packed in inner packaging under 5 L and outer packaging up to 30 kg.

(Packing group III, and Tunnel restriction code 'E', if content of packaging ≤ 450l, according to 2.2.3.1.4 ADR)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Remarks : (Packing group III, if content of packaging ≤ 450l, according to 2.2.3.1.4 RID)

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**IMDG**

Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Remarks : (Packing group III, if content of packaging ≤ 450l, according to 2.3.2.2 IMDG)

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids  
Remarks : (Packing group III, if content of packaging ≤ 30l, according to 3.3.3.1.1 IATA)

**IATA\_P (Passenger)**

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

**14.5 Environmental hazards****ADN**

Environmentally hazardous : no

**ADR**

Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
  
methanol (Number on list 69)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

RoHS: 2011/65/EU, Restriction of Hazardous Substances : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 75,86 %, 629,6 g/l

**The components of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

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AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
REACH	:	On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

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#### SECTION 16: Other information

##### Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H361f	:	Suspected of damaging fertility.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H411	:	Toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

##### Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Contact Point : Prepared by: Global Regulatory Department  
EU-MSDS@hbfuller.com

**Classification of the mixture:**

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319

**Classification procedure:**

Based on product data or assessment
Calculation method
Calculation method



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According to REACH Regulation (EC) No 1907/2006, as amended by  
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**Kövulfix® Rekord**

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STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

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