

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

### Rakoll® Supermelt Plus

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	26.02.2022	100000005843	Date of first issue: 26.02.2022

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

**Product name** : Rakoll® Supermelt Plus

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

Use of the Sub-  
stance/Mixture : Hot melt adhesive

Recommended restrictions  
on use : For industrial use only.

##### 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  
responsible for the SDS : EU-MSDS@hbfuller.com

##### 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)**

Not a hazardous substance or mixture.

##### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

##### **Additional Labelling**

EUH210 Safety data sheet available on request.

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#### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
vinyl acetate	108-05-4 203-545-4 607-023-00-0 01-2119471301-50-0000	Flam. Liq. 2; H225 Acute Tox. 4; H332 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412  Acute toxicity estimate  Acute inhalation toxicity (vapour): 11,4 mg/l	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.  
The molten product can cause serious burns.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : Cool skin rapidly with cold water after contact with molten material.  
Do not peel solidified product off the skin.  
Obtain medical attention.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical atten-

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tion if eye irritation develops or persists.

If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
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 : Use mineral oil to soften and loosen product for removal.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

#### 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 technical protective measures required.

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### SECTION 6: Accidental release measures

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

Personal precautions : not required

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

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

Methods for cleaning up : Allow to solidify, use mechanical handling equipment.

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#### 6.4 Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid breathing vapors/fumes of heated product. Prevent contact with molten product.  
Wear personal protective equipment.

Advice on protection against fire and explosion : not required

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

Requirements for storage areas and containers : Protect against light. Keep in a dry, cool place.

Further information on storage conditions : none

Advice on common storage : not required

#### 7.3 Specific end use(s)

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

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Paraffin waxes and Hydrocarbon waxes	8002-74-2	OELV - 8 hrs (TWA) (Fumes)	2 mg/m <sup>3</sup>	IE OEL
		OELV - 15 min (STEL) (Fumes)	6 mg/m <sup>3</sup>	IE OEL
vinyl acetate	108-05-4	TWA	5 ppm 17,6 mg/m <sup>3</sup>	2009/161/EU
	Further information: Indicative			
		STEL	10 ppm 35,2 mg/m <sup>3</sup>	2009/161/EU
	Further information: Indicative			
		OELV - 8 hrs (TWA)	5 ppm 18 mg/m <sup>3</sup>	IE OEL

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		OELV - 15 min (STEL)	10 ppm 35 mg/m <sup>3</sup>	IE OEL
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#### 8.2 Exposure controls

##### Personal protective equipment

- Eye protection : Safety glasses
- Hand protection  
Material : Protective gloves
- Remarks : When handling hot material, use heat resistant gloves. The exact break through time can be obtained from the protective glove producer and this has to be observed.
- Skin and body protection : Protective clothing
- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Avoid skin contact with the liquefied material.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : solid
- Colour : yellow
- Odour : odourless
- Odour Threshold : no data available
- Melting point/freezing point : is not determined
- Boiling point/boiling range : is not determined
- Flammability : Not classified as a flammability hazard
- Upper explosion limit / Upper flammability limit : no data available
- Lower explosion limit / Lower flammability limit : no data available
- Flash point : > 200 °C
- Auto-ignition temperature : not self-igniting

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Decomposition temperature : No decomposition if used as directed.

pH : not applicable

#### Viscosity

Viscosity, dynamic : Not applicable at ambient temperature

Viscosity, kinematic : Not applicable at ambient temperature

#### Solubility(ies)

Water solubility : insoluble

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

Vapour pressure : not applicable

Relative density : no data available

Density : 1,0 g/cm<sup>3</sup>

Relative vapour density : no data available

#### 9.2 Other information

Explosives : Not explosive

Evaporation rate : not applicable

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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 : None known.

#### 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.

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#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### 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:

###### vinyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 2.920 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 11,4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Acute toxicity estimate: 11,4 mg/l  
Test atmosphere: vapour  
Method: Calculation method  
Acute dermal toxicity : LD50 Dermal (Rabbit): 2.320 mg/kg

##### Skin corrosion/irritation

###### Product:

Remarks : Based on available data, the classification criteria are not met.

##### Serious eye damage/eye irritation

###### Product:

Remarks : Based on available data, the classification criteria are not met.

##### Respiratory or skin sensitisation

###### Product:

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Remarks : Based on available data, the classification criteria are not met.

#### **Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

**Product:**

Remarks : Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

**Product:**

Effects on fertility : Based on available data, the classification criteria are not met.

Effects on foetal development : Based on available data, the classification criteria are not met.

#### **STOT - single exposure**

**Product:**

Remarks : Based on available data, the classification criteria are not met.

#### **STOT - repeated exposure**

**Product:**

Remarks : Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

**Product:**

Assessment : 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 12: Ecological information

##### 12.1 Toxicity

###### Components:

###### **vinyl acetate:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 14 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 52 mg/l Exposure time: 24 h 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 Remarks: No further relevant information available.
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##### 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.
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##### 12.6 Endocrine disrupting properties

###### Product:

Assessment	:	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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##### 12.7 Other adverse effects

###### Product:

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Additional ecological information : Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Do not dispose of waste into sewer.  
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.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (\*).

**Waste accruing during application:**  
08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances  
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**Waste accruing during cleaning:**  
08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances  
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

**Waste packaging:**  
15 01 01 paper and cardboard packaging  
15 01 02 plastic packaging  
15 01 04 metallic packaging  
15 01 10\* packaging containing residues of or contaminated by dangerous substances.

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

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

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#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not dangerous goods

#### 14.7 Maritime transport in bulk according to IMO instruments

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

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: 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

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 : not applicable

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of major-accident hazards involving dangerous substances.

Volatile organic compounds : Volatile organic compounds (VOC) content: 0 %, 0 g/l

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

TSCA : All substances listed as active on the TSCA inventory

DSL : All components of this product are on the Canadian DSL

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.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H351 : Suspected of causing cancer.  
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure  
2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC  
IE OEL : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1  
2009/161/EU / TWA : Limit Value - eight hours  
2009/161/EU / STEL : Short term exposure limit  
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)  
IE OEL / OELV - 15 min (STEL) : Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

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Road; AIIIC - 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; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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