

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Icema™ R 101**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.10.2022	100000020930	Date of first issue: 01.10.2022

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name** : Icema™ R 101**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : AdhesiveRecommended 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 200E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com**1.4 Emergency telephone number**Emergency telephone number : In case of poisoning:  
GBK-EMTEL International  
Tel.(24h): +49(0)6132/84463 (all languages)In case of transport accidents:  
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 /  
GBK)

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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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EUH211      Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**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)
titanium dioxide (Airborne, unbound particles of respirable size)	13463-67-7 236-675-5 01-2119489379-17-0000	Carc. 2; H351	>= 1 - < 10

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.
- If inhaled                                        : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact                       : The product is not skin irritating.
- In case of eye contact                         : Flush eyes with water at least 15 minutes. Get medical attention 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.

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**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 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 protective measures against fire required.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Personal precautions : Use personal protective equipment.

**6.2 Environmental precautions**Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
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).  
Send for recovery or disposal in suitable containers.**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 : Keep away from children.  
Avoid release to the environment.

Advice on protection against fire and explosion : In the event of fire and/or explosion do not breathe fumes.  
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. Do not freeze.

Further information on storage conditions : Keep container tightly sealed. 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.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
barium sulfate	7727-43-7	OELV - 8 hrs (TWA) (Respirable dust)	5 mg/m <sup>3</sup>	IE OEL
quartz (SiO <sub>2</sub> )	14808-60-7	OELV - 8 hrs (TWA) (Respirable dust)	0,1 mg/m <sup>3</sup>	IE OEL
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used			
		OELV - 8 hrs (TWA) (Respirable dust)	0,1 mg/m <sup>3</sup> (Silica)	IE OEL
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used			
titanium dioxide (Airborne, unbound particles of respirable size)	13463-67-7	OELV - 8 hrs (TWA) (Respirable dust)	4 mg/m <sup>3</sup>	IE OEL
		OELV - 8 hrs (TWA) (inhalable)	10 mg/m <sup>3</sup>	IE OEL

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		dust)		
Silicon, amorphous	112945-52-5	OELV - 8 hrs (TWA) (Respirable dust)	2,4 mg/m <sup>3</sup>	IE OEL
Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used				
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m <sup>3</sup>	IE OEL
Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used				
		OELV - 8 hrs (TWA) (Respirable dust)	2,4 mg/m <sup>3</sup> (Silica)	IE OEL
Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used				
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	IE OEL
Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used				

**8.2 Exposure controls**
**Engineering measures**

Please take care on national and local requirements.

**Personal protective equipment**

Eye protection : Safety glasses

 Hand protection  
 Material : Nitrile rubber

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.

Skin and body protection : Protective clothing

Respiratory protection : Not necessary if room is well-ventilated.

 Protective measures : Avoid contact with the eyes and skin.  
 Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls**

Air : Suppress (knock down) gases/vapours/mists with a water spray jet.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	is not determined
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	:	Upper flammability limit is not determined
Lower explosion limit / Lower flammability limit	:	Lower flammability limit is not determined
Flash point	:	> 150 °C
Auto-ignition temperature	:	not self-igniting
Decomposition temperature	:	Not applicable
pH	:	Not applicable
Viscosity		
Viscosity, dynamic	:	1.200 Pa.s (20 °C)
Solubility(ies)		
Water solubility	:	not miscible or difficult to mix
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	is not determined
Density	:	1,95 g/cm <sup>3</sup> (20 °C)
Relative vapour density	:	is not determined

**9.2 Other information**

Explosives	:	Not explosive
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Evaporation rate : is not determined

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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.

**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.

**Carcinogenicity****Components:****titanium dioxide (Airborne, unbound particles of respirable size):**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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**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**

No data available

**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: 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 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.

**12.7 Other adverse effects**

No data available



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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.  
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.  
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.

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**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**

Not applicable

**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) : 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 - 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

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. Not applicable

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0,00 %, 0,0 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

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

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

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

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

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**

H351 : Suspected of causing cancer.

**Full text of other abbreviations**

Carc. : Carcinogenicity

IE OEL : Ireland. List of Chemical Agents and Occupational Exposure  
Limit Values - Schedule 1

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

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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; 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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