

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**RAVAFLEX REPRO BIIR**

Revision date: 03.01.2022

Product code: BIIR

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

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Manufacture of rubber products  
Rubber products: tyres.**1.3. Details of the supplier of the safety data sheet**

Company name:	Goldsmith & Eggleton
	Ravago Manufacturing Americas
Street:	1900 Summit Tower Blvd., Suite 900
Place:	USA-32810 Orlando, FL
Telephone:	330-336-6616
e-mail:	sds-rma@ravagoamericas.com
Internet:	www.ravagomfg.com

**Further Information**

Type of use: Injection moulding. blow moulding. Extrusion. Compression moulding.

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

This mixture is classified as not hazardous.

**2.2. Label elements****Hazard components for labelling**

not applicable

**2.3. Other hazards**The hazards of this product are mainly associated with its processing  
See section 11 for more detailed information on health effects and symptoms**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**Synthetic rubber, polymer  
Brominated isoprene-isobutylene copolymer  
CAS : 68441-14-5  
REACH : ---**Further Information**

This mixture does not contain any substances which either present a health or environmental hazard according to Regulation (EC) No. 1272/2008 or have an occupational exposure limit assigned.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**First aider: Pay attention to self-protection!  
Provide adequate ventilation.

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**After inhalation**

Provide adequate ventilation.  
In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.  
Consult physician.

**After contact with skin**

The melted product can cause severe burns.  
Do not use force or solvents to remove product incrustations from affected skin areas.  
After contact with molten product, cool skin area rapidly with cold water.  
Consult physician.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Consult physician.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water and Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Sand.

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

Carbon dioxide Carbon monoxide hydrocarbons. Toxic hydrogen bromide irritant will be set free. The possible presence of n-hexane may result in a clear risk to trigger off central nerve problems.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

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

No special measures are necessary.

**6.2. Environmental precautions**

No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Do not empty into drains.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Equipment with built-in suction provisions.

**Further information on handling**

When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in a cool place.  
Provide adequate ventilation.

**Hints on joint storage**

storage temperature: < 35 °C

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No special precautionary measures are necessary.

Shelf-life / year(s): 1

#### Further information on storage conditions

Keep away from: UV-radiation/sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

##### Appropriate engineering controls

5mg/m<sup>3</sup> In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation at machinery.

##### Protective and hygiene measures

Provide adequate ventilation. Equipment with built-in suction provisions.

When using do not eat, drink or smoke. Do not breathe dust.

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear suitable gloves. In the case of the formation of dust

##### Skin protection

Only wear fitting, comfortable and clean protective clothing.

In case of increasing hazard add: heat-resistant synthetic fibres

##### Respiratory protection

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

P1 particulates filter device (DIN EN 143).

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	amber coloured
Odour:	odourless to mild

#### Test method

##### Changes in the physical state

Flash point:	> 210 °C	ASTM D 92
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##### Explosive properties

In the case of the formation of dust Dust explosive.

Auto-ignition temperature:	> 300 °C
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##### Oxidizing properties

not applicable

Vapour pressure:	not applicable
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Density:	0,93 g/cm <sup>3</sup>
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Water solubility:	insoluble
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**9.2. Other information**

point of decomposition : &gt; 170 °C

**SECTION 10: Stability and reactivity****10.1. Reactivity**

not applicable

**10.2. Chemical stability**

The product is stable.

**10.3. Possibility of hazardous reactions**

Will not occur.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

Carbon dioxide Carbon monoxide hydrocarbons. hydrogen bromide

**Further information**

No risks worthy of mention.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

This information is not available.

**Acute toxicity**

Toxicological data are not available.

**Irritation and corrosivity**

This information is not available.

**Sensitising effects**

This information is not available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

This information is not available.

**STOT-repeated exposure**

This information is not available.

**Specific effects in experiment on an animal**

This information is not available.

**Further information**

When used and handled according to the specifications, this product does not have any harmful effects to human health according to our experience and the information available. Contact the manufacturer in case the material is to be used in special applications such as in contact with food or for hygiene, medical or surgical end-use.

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

This information is not available.

**12.2. Persistence and degradability**

This information is not available.

**12.3. Bioaccumulative potential**

This information is not available.

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**12.4. Mobility in soil**

This information is not available.

**12.5. Results of PBT and vPvB assessment**

This information is not available.

**12.7. Other adverse effects**

This information is not available.

**Further information**

Insoluble in: Water.

Ecotoxicological effects: none

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Product is biodegradable with difficulty.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Material recycling possible.

Refer to manufacturer or supplier for information on recovery or recycling.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.**14.3. Transport hazard class(es):** none**Inland waterways transport (ADN)****14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.**14.3. Transport hazard class(es):** none**Marine transport (IMDG)****14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.**14.3. Transport hazard class(es):** none**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.**14.3. Transport hazard class(es):** none**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.7. Maritime transport in bulk according to IMO instruments**

This information is not available.

**Other applicable information**

Keep away from food, drink and animal feedingstuffs.

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

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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**National regulatory information****15.2. Chemical safety assessment**

For this substance a chemical safety assessment is not required.

**SECTION 16: Other information****Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

This safety datasheet should be used in conjunction with technical datasheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose than that for which it was intended. This does not in any way excuse the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility. Furthermore, this safety datasheet is made up based on the legal requirements as set by EC 1272/2008 based on information as is available per July 2017 (date of entry into force). That information that is not yet filled in depends on the input we receive from our suppliers following the time scale as foreseen by EC 1272/2008 and depends solely on the registration of the concerned substances.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*