

**Ecorr® RNR Safety Data Sheet**  
**(EC) No. 1907/2006 (Reach) and**  
**amendment (EC) No. 2020/878 - GHS**

Version 16, date: 04-11-2021  
 Superseding date: 05-09-2018  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product form : Mixture  
 Trade name : Ecorr® RNR  
 Product code : RNR40B11, RNR30B01, RNR30B91, RNR20B52, RNR20B66  
 Type of product : Solid

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

**1.2.1. Relevant identified uses**

Main use category : Manufacture of rubber products  
 Industrial/Professional use : Industrial

**1.2.2. Uses advised against**

No additional information available

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

Manufacturer : Rubber Resources B.V.  
 Schoenerweg 36 - 6222 NX Maastricht - The Netherlands  
 T +31 (0)43 3290 444 - F +31 (0)43 3290 303

**1.4. Emergency telephone number**

Emergency number : +31 (0) 43 3290 444  
 112 (24 hour service) – applicable to EU countries only

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

*Classification according to Regulation (EC) No. 1272/2008 [CLP], Mixtures/Substances: SDS EU 2015:  
 According to Regulation (EU) 2015/830 (REACH Annex II)*

Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412  
 Full text of H statements : see section 16

*Adverse physicochemical, human health and environmental effects :*

No additional information available.

*Classification according GHS (Purple book)*

Aquatic acute category III, harmful to aquatic life.  
 Aquatic chronic category III, harmful to aquatic life with long lasting effects.

**2.2. Label elements**

*Labelling according to Regulation (EC) No. 1272/2008 [CLP]*

Signal word, pictogram (CLP) : No signal word, no pictogram.  
 Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

*Labelling according GHS (Purple book)*

Signal word, symbol (CLP) : No signal word, no symbol.



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**Rubber Resources B.V.**

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**2.3. Other hazards**

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Reclaimed rubber, CAS number 139497-04-4.

Name	Product identifier	%	Signal word	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index-No.) 030-013-00-7 (REACH-no) 01-2119463881-32-xxxx	< 2.5	Warning	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

Name	Product identifier	%	Signal word	Classification according to GHS (Purple book)
Zinc oxide	(CAS-No.) 1314-13-2	< 2.5	Warning	Aquatic Acute 1 Aquatic Chronic 1 Very toxic to aquatic life with long lasting effects

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general :	Never give anything by mouth to an unconscious person. If exposed or concerned: get medical advice/attention.
First-aid measures after inhalation :	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice. Wash contaminated clothing before reuse.

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First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : --

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

Explosion hazard : Toxic fumes may be released. Carbon dioxide (CO2). Carbon monoxide. Sulphur dioxide.

**5.3. Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Ensure adequate ventilation. Do not inhale vapor. Avoid dust formation.

Refer to protective measures listed in Sections 7 and 8.

**6.1.1. For non-emergency personnel**

Protective equipment : Refer to section 8.

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.



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**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Methods for cleaning up : Pick up mechanically. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.  
 See Heading 13. Disposal considerations.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  
 Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures : Store in a well-ventilated place. Keep container tightly closed.  
 Storage conditions : Keep container closed when not in use.  
 Incompatible products : Strong bases. Strong acids.  
 Incompatible materials : Sources of ignition.  
 Storage temperature : ≤ 25 °C

**7.3. Specific end use(s)**

No additional information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.1.1. National occupational exposure and biological limit values**

<b>Zinc oxide (1314-13-2)</b>		
<b>EU</b>	<b>Local name</b>	<b>Zinc oxide</b>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
United Kingdom	Remark (WEL)	(fume)

**8.1.2. Recommended monitoring procedures**

No additional information available

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### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Dust must be extracted directly at the point of origin. Use only in well-ventilated areas.

See Heading 7. Handling and Storage.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable coveralls to prevent exposure to the skin

##### Hand protection:

Wear protective gloves

##### Other skin protection

##### Materials for protective clothing:

Wear suitable protective clothing, safety foot-wear

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of excessive vaporization wear appropriate mask.

#### 8.2.2.4. Thermal hazards

Thermal hazard protection:

Wear personal protective equipment

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**8.2.3. Environmental exposure controls**

**Environmental exposure controls:**

See Heading 6. Accidental release measures

**Other information:**

Do not eat, drink or smoke during use

**SECTION 9: Physical and chemical properties**

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

Physical state	: Solid
Colour	: Black
Appearance	: Solid, slab
Odour	: Rubbers
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flammability	: Not available
Explosive properties	: Not available
Oxidising properties	: Not available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable
pH solution	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Not soluble in water Partially soluble in acetone
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Partition coefficient n-octanol/water (Log Pow)	: Not applicable



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Vapour pressure	: Not applicable
Vapour pressure at 50 °C	: Not applicable
Density	: 1100 – 1200 kg/m <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes**

No additional information available

**9.2.2. Other safety characteristics**

Relative evaporation rate (butylacetate=1): Not applicable

Relative evaporation rate (ether=1) : Not applicable

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product is stable at normal handling and storage conditions.

**10.2. Chemical stability**

Stable under normal conditions of use.

**10.3. Possibility of hazardous reactions**

Toxic fumes may be released.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids, strong bases, all sources of ignition.

**10.6. Hazardous decomposition products**

Fume, carbon monoxide, carbon dioxide, sulphur dioxide (SO<sub>2</sub>).



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**SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

<b>Zincoxide</b>	
LD50 oral rat	15000 mg/kg Löser (1972)
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5700 mg/m <sup>3</sup> (Exposure time: 4 h)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.7 mg/l/4h Klimisch et al. (1982)

Skin corrosion/irritation : Not classified  
 pH: Not applicable

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified  
 pH: Not applicable

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitization : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met

<b>Ecorr® RNR</b>	
Viscosity, kinematic	Not applicable



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**11.2. Information on other hazards**  
**11.2.1. Endocrine disrupting properties**

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**11.2.2. Other information**

Potential Adverse human health effects : Based on available data, the classification criteria are and symptoms not met

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - water : Harmful to aquatic life with long lasting effects.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified  
 Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

<b>Zinc oxide (1314-13-2)</b>	
LC50 - Fish [1]	1.55 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
EC50 - Crustacea (1)	0.83 mg/l (48h - Ceriodaphnia Dubia - pH < 7 - Hyne et al 2005)
EC50 72h algae (1)	EC50 72h algae (1) 0.27 mg/l (72h - Selenastrum capricornutum - pH 7-8.5 - OECD 201 - Van Ginneken, 1994)
NOEC (chronic)	0.02 mg/l

**12.2. Persistence and degradability**

<b>Ecorr® RNR</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

<b>Zinc oxide (1314-13-2)</b>	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3. Bioaccumulative potential**

<b>Ecorr® RNR</b>	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Not established

<b>Zinc oxide (1314-13-2)</b>	
Bioaccumulative potential	No bioaccumulation

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**12.4. Mobility in soil**

<b>Zinc oxide (1314-13-2)</b>	
Partition coefficient n-octanol/water (Log Koc)	2.2

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

No additional information available.

**12.6. Endocrine disrupting properties**

No additional information available.

**12.7. Other adverse effects**

Additional information : Avoid release to the environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN Number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**14.6. Special precautions for user**

Overland transport Not applicable  
 Transport by sea Not applicable  
 Air transport Not applicable



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Inland waterway transport                      Not applicable  
 Rail transport    Not applicable

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

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances  
 Directive 2012/18/EU (SEVESO III)  
 CLP regulation (EC) no. 1272/2008, 1.3. Annex I : Derogation from labelling requirements is permitted for this product.

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Indication of changes:

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II).

Sources of Key data :                      REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information :                      None.

**Full text of H- and EUH-statements :**

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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**Classification and procedure used to derive the classification for mixtures according to Regulation**  
**(EC) 1272/2008 [CLP]:**

Aquatic Chronic 3            H412 (Calculation method)

SDS EU (REACH Annex II) This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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