

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

Version 15, 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® RBR
 Product code : RBR70, RBR70F, RBR72, RBR7050
 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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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

Inner tube reclaim based on butyl polymer (CAS number 9010-85-9), polymer content: 50 - 58 %.

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

Zinc oxide (1314-13-2)		
EU	Local name	Zinc oxide
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³
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 ³
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 (SO₂).



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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

Zincoxide	
LD50 oral rat	15000 mg/kg Löser (1972)
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5700 mg/m ³ (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

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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.

Zinc oxide (1314-13-2)	
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

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

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

12.3. Bioaccumulative potential

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

Zinc oxide (1314-13-2)	
Bioaccumulative potential	No bioaccumulation

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12.4. Mobility in soil

Zinc oxide (1314-13-2)	
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
14.1. UN Number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
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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