

Ecorr® RNR Safety Data Sheet
(EC) No. 1907/2006 (Reach) and
amendment (EC) No. 2015/830 - GHS

Version 15, date: 05-09-2018
 Superseding date: 21-02-2017
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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
 REACH registration No : Not available
 Exemption 2(7)(d) of REACH Regulation EC/1907/2006
 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

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.



An **ELGI** Company



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Labelling according GHS (Purple book)

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

2.3. Other hazards not contributing to the classification

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixture

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. Classification of the substance or mixture

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated, dry place. Temperature : ≤ 25 °C

Incompatible materials : All sources of ignition.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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)

8.2. Exposure controls

Appropriate engineering controls: Dust must be extracted directly at the point of origin.

Use only in well-ventilated areas.

Personal protective equipment: Avoid all unnecessary exposure.

Materials for protective clothing: Wear suitable protective clothing and safety foot-wear.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.



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Skin and body protection: Wear suitable coveralls to prevent exposure to the skin.
 Respiratory protection: In case of excessive vaporization wear appropriate mask.
 Personal protective equipment symbol(s):



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

a)	Physical state :	Solid
	Appearance :	Slab
	Colour :	Black
b)	Odour :	Reclaimed rubber
c)	Odour threshold :	Not determined
d)	pH :	Not applicable
e)	Melting point :	Not applicable
	Freezing point :	Not applicable
f)	Boiling point / range :	Not applicable
g)	Flash point :	Not applicable
h)	Relative evaporation rate (butyl acetate=1) :	Not determined
	Relative evaporation rate (ether=1) :	Not determined
i)	Flammability (solid, gas) :	Not determined
j)	Upper/lower flammability or explosive limits :	Not applicable
k)	Vapor pressure :	Not applicable
l)	Relative vapor density at 20 °C :	Not applicable
m)	Relative density :	Not determined
	Specific density :	1100 - 1200 kg/m ³
n)	Solubility :	Not soluble in water. Partially soluble in acetone.
o)	Partition coefficient: n-octanol/water :	Not applicable
p)	Auto-ignition temperature :	Not determined
q)	Decomposition temperature :	Not determined
r)	Viscosity, kinematic :	Not applicable
	Viscosity, dynamic :	Not applicable

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- s) Log Pow : Not applicable
- Explosive properties : Not applicable
- Explosive limits : Not applicable
- t) Oxidizing properties : Not determined

9.2. Other information

Molecular weight is not determined.

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).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Zincoxide	
LD50 oral rat	15000 mg/kg Löser (1972)
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

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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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.
 Acute aquatic toxicity : Not classified
 Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Zinc oxide (1314-13-2)	
EC50 Daphnia 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.



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12.3. Bioaccumulative potential

Ecorr® RNR	
Log Pow	Not applicable
Bioaccumulative potential	Not established

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

12.4. Mobility in soil

Zinc oxide (1314-13-2)	
Log Koc	2.2

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. 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



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14.6. Special precautions for user

Overland transport	Not applicable
Transport by sea	Not applicable
Air transport	Not applicable
Inland waterway transport	Not applicable
Rail transport	Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

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.

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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.

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.