

SAFETY DATA SHEET RESIPRENE

According to EC Regulation no. 1907/2006 (REACH) / EC Regulation
no.1272/2008/ EC / Regulation no. 830/2015

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE PRODUCER

1.1 Product identification

Name : RESIPRENE -35
Other names: CYCLIZED RUBBER (DERIVED FROM NATURAL RUBBER)
IUPAC name: 2-Methylbuta1,3-diene
Others name: 2 Methyl-1,3-butadiene (ISOPRENE)
CAS number: 78 – 79 - 5
EC number : 201 – 143 - 3
ECHA reference number: 05-2114998345-32-0000

1.2 Relevant identified uses of the substance or mixture.

According to Article 14.4 of Annex XI, section 3 of the EC Regulation no. 1907/2006 an exposure scenario is not needed, therefore, there is no detailed information concerning the use.

Identified uses: in high performance products such as coatings,paints, printing inks, and adhesive.

1.3 Details concerning the supplier of the Safety Data Sheet

Producer:

PT. Industri Karet Nusantara
Jl. Medan -Tanjung Morawa KM 9.5 Medan 20148, North Sumatera – Indonesia
Telp. 62 61 7867566, 7867357, Fax. 62 61 7867356,
Email: gpihk_prpne@hotmail.com, prpne@email.ptpn3.co.id

1.4 Emergency telephone number

The institution responsible with providing information in case of a health emergency is The National Institute for Public Health, Department for the International Sanitary Regulation and Toxicological Information.

Telephone: 021.318.36.06, working hours: Monday–Friday from 8 a.m. to 3 p.m.

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Resiprene is cyclized rubber resin derived from natural rubber substance; it is not classified as hazardous, as the evidence is not sufficient for classification.

Classification according to EC Regulation no. 1272/2008 (CLP)

Conclusions are not sufficient for classification.

Human health hazard

The following aspect will be taken into consideration.

Skin contact : The product is not irritant, and sterile

Eye contact : cause discomfort but not damage

Ingestion : The product is not toxic for ingestion,

Inhalation : The product is not toxic for inhalation,

Environmental hazards

Not dangerous to the environment, Resiprene is not a hazardous substance.

2.2 Labeling

Labeling according to CLP Regulation

According to the CLP Regulation 1272/2008/EC, the substance is not classified as dangerous.

EU label

Substance name: Resiprene -35

ECHA reference number: 05-2114998345-32-0000

EC number: 201-143 - 3

Producer:

PT. Industri Karet Nusantara

Jl. Medan –Tanjung Morawa KM 9.5 Medan 20148, North Sumatera – Indonesia

Telp. 62 61 7867566, 7867357, Fax. 62 61 7867356,

Email: gpihk_prpne@hotmail.com, prpne@email.ptpn3.co.id,

Emergency telephone number : 021.318.36.20/extension 235,

Working hours : Monday- Friday from 8 a.m. to 3p.m

Content: RESIPRENE min.: 99%

2.3 Other hazards

RESIPRENE is not a PBT, not a vPvB substance, due to the low bioconcentration potential, the low partition coefficientn-octanol/water and low ecotoxicity.

SECTION 3
COMPOSITION/INFORMATION ON COMPONENTS

3.1 The product must be considered: Substance

Chemical identity of the substance – RESIPRENE -35 is a monoconstituent substance (origin:organic)

CAS number: 78 – 79 - 5

EC number: 201 – 143 - 3

IUPAC name: 2-Methylbuta-1,3-diene

EC name: ISOPRENE

Molecular formula: (C₅H₈)_n

Molecular weight range: ± 6800

Purity degree: ± 99 %

Chemical identification of impurities

Unknown impurities - IUPAC name: unknown impurity

SECTION 4 FIRST AID MEASURES

4.1 Description of the first aid measures

4.1.1 First aid instructions are provided depending on the relevant exposure routes.

Skin contact: Wash with plenty of running water using soap, take off contaminated clothing. The resins is sterile.

Eye contact: Wash eye with plenty of water, should irritation persit, call medical help.

Ingestion : If large amounts are ingested, the mouth should be washed out with water and large quantities of water drunk. If necessary seek medical attention.

Inhalation : Should large quantities of powder or dust be inhaled, remove person from contaminated area, and assure good respiration, call medical help.

4.1.2 Recommendations:

Remove the contaminated person from the exposure area. There are no special recommendations ,referring to special first-aid equipment.

4.2 The most important symptoms and effects, acute as well as delayed

Overexposure by inhalation may lead to irritations of the airways (cough).

There are no known acute effects following overexposure to this product in case of skin contact or ingestion. It may cause discomfort in case of eye contact.

4.3 Indications concerning any emergency medical assistance and necessary special treatments

No available data.

SECTION 5 FIRE EXTINGUISHING MEASURES

5.1 Fire extinguishing means

Adequate extinguishing means

Small fire

Non-flammable substance: use the most efficient available means to extinguish the fire, depending on the materials involved.

Large fires

Non-flammable substance: use the most efficient available means to extinguish the fire, depending on the materials involved.

Adequate extinguishing means

Sand,carbon dioxide,dry powder or foam extinguisher.

5.2 Special hazards caused by the substance or mixture

Unusual fire and explosion hazards: no specific hazard

Hazardous thermal decomposition products: in case of fire, cyclized rubber resin will support combustion evolving black smoke.

Special procedures for firefighting Extinguish the fire from a safe area, or from the maximum possible distance. Keep temperatures low in the area surrounding the fire

5.3 Recommendations for the firefighters

The protection of the firefighters is ensured with a self-contained breathing apparatus and adequate protection equipment.

SECTION 6 ACCIDENTAL DISPERSION MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For personnel not involved in emergency situations

(a) Protective equipment

Hand protection: adequate protective gloves (PVC, neoprene)

Eye protection: protective glasses

Skin protection Protective clothing:

Dust resistant overalls (breastplate duck overalls, coat).

Protective footwear: Protective boots resistant to corrosive chemical agents (rubber,PVC)

(b) Avoid generation of dust and prevent dispersion by the wind. Wear adequate protection equipment.

6.2 Precautions for the environment

No special measures are requested.

6.3 Methods and material for containing fires and for cleaning

Stop spillage and collect dispersed product that can be reused or eliminate as solid waste.

6.4 Reference to other sections

Note: see chapter Exposure control / individual protection, for information concerning personal protection equipment and the section Disposal considerations.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Recommendations for safe handling

Avoid generation of dust. Wear adequate protection equipment - P2 protective mask, protective gloves and protective goggles with side shields.

Use adequate ventilation system. A local exhaust ventilation system is required.

7.1.2 Recommendations concerning good general hygiene practices at the work place

(a) Do not eat, drink or smoke in the working area. "NO SMOKING" signs are to

- be placed in the working area.
- (b) Wash hands thoroughly after each use.
 - (c) Remove contaminated clothing and protection equipment before entering lunch areas.

7.2 Safe storage conditions, including possible incompatibilities

Resiprene-35 is packed in three leaf paper bags containing 25 Kg net of product on shrink filmed pallets loading 1000 Kg net.

The Resiprene bags are placed on wooden pallets and are manipulated using forklifts or pallet trucks.

The bags should be stored indoors in the original unopened and undamaged in a dry place at temperature between 5 - 30° C, Exposure to direct sunlight should be avoided and keep away from heat and source of ignition, smoking should be prohibited.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

No official exposure limits are specified according to ACGIH (1995-1996: no testing, No local effects were observed following dermal and inhalation exposure

8.2 Exposure control

8.2.1 Adequate technical controls

In case of regular work, provide dust collector equipment

Ventilation : use in well ventilated area with local exhaust

Respiratory Protection : Approved respiratory equipment must be used when dust concentrations unknown or exceed the exposure limits. When processing large amounts, use light duty construction compressed air line breathing apparatus or dust mask when there is inadequate ventilation

Risk management measures for human health

No risk management measures were identified.

8.2.2. Personal protection measures, such as personal protection equipment

- (a) Respiratory protection: P2 protective mask
- (b) Hand protection: adequate protection gloves
- (c) Eye protection: protective goggles with side shields
- (d) Skin protection: Protection clothing

8.2.3 Environmental exposure control

Resiprene is of no concern with regard to human or environmental exposure. No risk

management measures were identified for this substance. The users will be informed concerning the product safe usage rules.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information concerning the main physical and chemical properties

Physical State	: Solid
Color	: Yellow – Brown Solid
Odor	: None
Softening Point	: 125 – 145°C
Fire Point	: Above 300°C
Decomposition Temp.	: Above 300°C
Auto Ignition Temp.	: Above 500°C
Inflammability Limit Air	: Not Detectable
Vapour Tension	: None
Density (25°C)	: Max. 0,98 gr/cm ³
Density of the Vapour	: Not Detectable
Soluble in Water	: Nil
Solubility in organic Solvent	: Good

9.2 Additional information

No available additional information.

SECTION 10

STABILITY AND REACTIVITY

10.1 Reactivity

The product is not Reactive.

10.2 Chemical stability

The product is stable.

10.3 Hazardous reactions potential

None are known

10.4 Conditions to avoid

Avoid sunlight

10.5 Incompatible materials

No available data.

10.6 Hazardous decomposition products

None

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The relevant hazard classes for which information is provided are:

(a) **Acute Oral Toxicity** : The product is not toxic for ingestion, however the preparation or consumption of food or beverages should not be allowed in areas where Resin is handled or processed.

- (b) **Acute Dermal Toxicity:** The product is not irritant, however prolonged contact of resin with the skin may cause localized irritation leading to dermatitis, and should be avoided.
- (c) **Acute Inhalation Toxicity:** The product is not toxic for inhalation, however resin dust can irritate the respiratory tract, large amounts may block the air passages. Dust masks should be worn where excessive dust is generated.
- (d) **Contact With Eyes :** cause discomfort but does not damage.
- (e) **Mutagenicity**
Evaluation of results: mostly negative.
- (f) **Carcinogenicity -** Resiprene is not carcinogenic
No classification as to carcinogenicity is required.
- (g) **Toxicity for reproduction**
Not toxic for reproduction.

11.1.2 The data in this subsection apply to the Resiprene – they are available in the Chemical Safety Report.

11.1.3 The results of experimental studies by route of exposure:

Oral LD50 (irving test for 12 days on rats) is negative has proved to be superior to 2 gr/kg (maximum quantity that can be given)

SECTION 12

ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic compartment (including sediments)

Cyclized rubber resins is neutral, non toxic, and water insoluble, hence it does not represent ecological hazard

12.2 PBT and vPvB assessment results

The Product is not a PBT not a vPvB substance.

12.3 Other adverse effects

There is no information concerning other adverse effects on the environment.

SECTION 13

DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local state or national legislation

Recycle the product in accordance with local regulations in use.

Packaging wastes contaminated with resiprene that can be reused and must be directed to a company authorized for the disposal of packaging wastes.

Relevant provisions of the harmonized EU legislation and domestic legislation regarding waste.

National legislation in force:

Law no. 211/2011 concerning wastes treatment.

Law no. 265/2006 – The Law on environment protection.

Law no. 249/2015 related to the packaging and waste packaging management.

Government Decision no. 856/2002 - The evidence of wastes management, with subsequent modifications.

Regulation (EC) no.1907/2006 of the European Parliament and of the Council regarding the Registration, evaluation authorization and restriction of chemicals (REACH).

Regulation (EC) no.1272/2008 of the European Parliament and of the Council on the classification, labeling and packaging of substances and mixtures.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

European Agreement concerning the International Carriage of Dangerous Goods by Rail (RID).

SECTION 14 TRANSPORT INFORMATION

Information concerning classification

Resiprene is not classified according to UN Orange Book, RID, ADR, and IMDG; it is not considered dangerous for transportation.

14.1. Environmental hazards

Not dangerous to the environment

14.2. Special precautions for users

Resiprene-35 is packed in three leaf paper bags containing 25 Kg net of product on shrink filmed pallets loading 1000 Kg net.

14.3. Bulk transport, according to Annex II to MARPOL Convention and IBC Code

Not applicable.

SECTION 15 REGULATORY INFORMATION

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

Relevant information regarding the domestic legislation

Classification/Marking : not classified

Labelling : none required

Hazard Code : none required

Security Code : none required

Relevant information regarding the EU legislation

Regulation (EC) no.1907/2006 of the European Parliament and of the Council regarding the Registration, evaluation authorization and restriction of chemicals (REACH).

Regulation (EC) no.1272/2008 of the European Parliament and of the Council on the classification, labeling and packaging of substances and mixtures.

Regulation (EC) no.830/2015 of the Commission from date of 28.05.2015 amending Regulation (EC) no.1907/2006.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), 2015 edition.

Regulation referring to the International Carriage of Dangerous Goods by Rail (RID), 2015 edition.

International Maritime Dangerous Goods (IMDG), 2012 edition.

15.2 Chemical safety assessment

A chemical safety assessment (CSA) was conducted and a chemical safety report (CSR) was elaborated for Resiprene

SECTION 16

ADDITIONAL INFORMATION

a) A clear evidence of added, deleted or modified information

Version (revision edition) Number	Date	Page Number	Evolution of the information
Edition 1, revision 0	11.14.2016	-	-

b) List of abbreviations and acronyms used throughout the Safety Data Sheet

SDS - Safety Data Sheet

ECHA - European Chemicals Agency

EC - European Commission

ESIS - European Chemical Substances Information System

(REACH - EC Regulation No. 1907/2006 of the European Parliament and Council concerning the registration, evaluation, authorization and restriction of chemical substances

CSR - Chemical Safety Report

CSA - Chemical Safety Assessment

LD50 - Lethal dose for 50% of the tested population

PBT - Persistent, Bioaccumulative, Toxic

vPvB - Very Persistent, Very Bioaccumulative

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement referring to the International Carriage of Dangerous Goods by Road, 2015 edition

RID - Regulation referring to the International Carriage of Dangerous Goods by Rail (RID), 2015 edition

IMDG - Regulations referring to the maritime transportation of hazardous Substances, 2012 edition

MARPOL - International Convention for the Prevention of Pollution from Ships

IBC - International Code for the construction and equipment of ships carrying dangerous chemicals in bulk

c) Bibliography

Studies according to the Chemical Safety Report

Guidance on safe use – The joint/individual ECHA Registration file for the substance

Official Journal of the European Union – EU Regulation no. 830/2015 of the European Council of 28.05.2015

ESIS - European Chemical Substances Information System

Official Journal of the European Union –EC Regulation no. 1907/2006 of the European Parliament and Council concerning the registration, evaluation, authorization and restriction of chemical substances (REACH)

Note:

The information included in this safety data sheet is based on the data available at the time of publication.

The client and the user assume all risks regarding usage, handling and storage of this product. There are no guarantees for the product in case of improper handling, transport and storage of the product, not complying with the specifications of the Technical Specification and the Safety Data Sheet.