

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 SDS Reference Number: FP13510 Issue date: 11/01/2017 Revision date: 24/06/2024 Supersedes version of: 09/11/2023 Version: 2.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product ide	ntifier				
Product form Trade name Chemical name EC-No. CAS-No. Type of product Product group REACH registration	: P : 1 : 6 : 6 : 1 : 1 : 1 : 1 : T : T : E	 Substance Poly bd® R45 V 1,3-Butadiene, homopolymer, hydroxy-terminated 614-926-3 69102-90-5 Imported/Resale Trade product Exempted from REACH registration Polymer 			
1.2. Relevant id	entified uses of the substance o	r mixtu	re and uses advised agai	inst	
Relevant identifie	d uses				
Use of the substan	ce/mixture : E	lastomer	s		
1.3. Details of the	ne supplier of the safety data sh	eet			
Supplier Resin Solutions, LLC 665 Stockton Drive, Suite 100 Exton, PA 19341 USA T +1-484-284-8989 product.stewardship@resinsolutions.com, https://www.resinsolutions.com/			European Represent Resin Solutions Italia Via Baiona 107 48123 RAVENNA ITALY T +39 0544 459022 product.stewardship@ https://www.resinsolut	Srl <u>Presinsolutions.com,</u>	
1.4. Emergency	telephone number				
Emergency number : Emergency call Carechem 24 International : • for English speaking countries: +44 (0) 1235 239 670 • for Europe (in local languages): + 33 1 49 00 00 49 • for Africa and Middle East: + 44 (0) 1235 239 671 • for China: 400 120 6011 • for Asia Pacific (Hong-Kong, Singapore, Taiwan, Philippines, India, Vietnam, Sri Lanka, Japan, Korea, Malaysia, Indonesia, Thailand) : + 65 3158 1074					
Country/Area	Organisation/Company	A	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital		O Box 1297 Beaumont Road	+353 1 809 2566 (Healthcare professionals-	

Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Emergency number		08 45 46 47	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification

: Contact with hot material - prevent serious burns. The working steams can irritate the eyes as well as the respiratory tract. Repeated exposure may cause skin dryness or cracking.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The substance is not 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			
Name CAS-No.	: Polymer : Poly bd® R45 V : 69102-90-5 : 614-926-3		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3-Butadiene, homopolymer, primary hydroxy- terminated	CAS-No.: 69102-90-5 EC-No.: 614-926-3	99.5	Not classified

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. Gently wash with plenty of soap and water. If irritation persists, consult a doctor. Exposure to splashing of hot product: Treat the affected part with cold water (by spraying or immersion). Get immediate medical advice/attention. 	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears or redness persist. Heated Material: For serious burns from heated material, get medical attention. In case of contact with the eyes : Rinse immediately with plenty of water for 15 minutes.	
First-aid measures after ingestion	: Rinse mouth out with water. If necessary seek medical advice.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects Symptoms/effects after skin contact Symptoms/effects after eye contact	 The working steams can irritate the eyes as well as the respiratory tract. Contact with hot material - prevent serious burns. Repeated exposure may cause skin dryness or cracking. Contact with hot material - prevent serious burns. 	
4.3. Indication of any immediate medical attention and special treatment needed		

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.Use of heavy stream of water may spread fire.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Heat from fire can generate flammable vapour. When mixed with air and exposed to ignition source, can burn in open air or explode if confined. At high temperatures : Flammable or explosive vapour/air mixtures may be formed. Carbon oxides (CO, CO2). Toxic fumes. 1,3-butadiene. Hydrocarbons.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire fighting water from entering the environment. Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	nent and emergency procedures	
General measures	: No flames, no sparks. Eliminate all sources of ignition.	
For non-emergency personnel		
Emergency procedures for non-emergency personnel	: Ensure adequate ventilation. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	 Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Keep recovered product for subsequent disposal. Wash non-recoverable remainder with large amounts of water. Collect up the product and place it in a spare container suitably labelled. 	

6.4. Reference to other sections

See section 8. Exposure controls/personal protection.

SECTION 7: Handling and storag	je
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Contact with hot material - prevent serious burns. Use only non-sparking tools. Eliminate all ignition sources if safe to do so. Steam drum heaters are recommended. If heating is necessary for drummed product, loosen or remove bung or lid before warming/heating product to avoid overpressurization in the drum. If frozen, thaw and mix thoroughly before use.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Containers which are opened should be properly resealed and kept upright to prevent leakage.	
Storage conditions	: Keep container tightly closed. Store in a dry, cool area. Purge open drums with nitrogen before resealing. Viscosity may increase over time. Keep away from sources of ignition.	
Incompatible materials	: Strong oxidizing agents. Strong reducing agents. Strong acids. Peroxides.	
7.3. Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Safety shower. Eye fountain.

Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection: Safety glasses with side shields

Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection:

Impermeable protective gloves. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Dhysical state	Liquid
Physical state	: Liquid
Colour	: Colourless.
Appearance	: Viscous.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 200 °C Closed cup

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Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic	: Not available : > 350 °C : Not applicable : Not available
Solubility	: soluble in most organic solvents. Water: Insoluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: ~ 0.9 g/m³ (20 °C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
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10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Direct sunlight. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Strong acids. Peroxides.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined	ned in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified (Based on available data, the classification criteria are not met) Not classified (Lack of data; Based on available data, the classification criteria are not met) Not classified (Lack of data; Based on available data, the classification criteria are not met) 	
1,3-Butadiene, homopolymer, hydroxy-terminated (69102-90-5)		
LD50 oral rat	> 5000 mg/kg	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable	
Additional information	 No skin irritation (rabbit) (OECD 404 method) Heated product causes burns Persented product causes burns 	
Serious eye damage/irritation	 Repeated exposure may cause skin dryness or cracking. Not classified (Based on available data, the classification criteria are not met) pH: Not applicable 	

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Additional information	 No eye irritation (rabbit) (OECD 405 method) Heated product causes burns
Respiratory or skin sensitisation	: Not classified (Lack of data)
Additional information	: Does not cause cutaneous sensitisation for guinea-pigs
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	Not classified (Lack of data)
Reproductive toxicity	Not classified (Lack of data)
STOT-single exposure	: Not classified (Lack of data)
STOT-repeated exposure	: Not classified (Lack of data)
Aspiration hazard	: Not classified (Lack of data)
11.2. Information on other hazards	
Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	: 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 substance(s) are 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 at a concentration equal to or greater than 0,1 %
Other information	

Potential adverse human health effects and	: The working steams can irritate the eyes as well as the respiratory tract
symptoms	
Other information	: Likely routes of exposure: ingestion, skin and eye.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general :	Do not allow product to spread into the environment. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short–term : (acute)	Not classified (Lack of data)	
Hazardous to the aquatic environment, long–term : (chronic)	Not classified (Lack of data)	
12.2. Persistence and degradability		
1,3-Butadiene, homopolymer, hydroxy-terminated (69102-90-5)		
Persistence and degradability	Rapidly degradable	

Persistence and degradability	Rapidly degradable	
1,3-Butadiene, homopolymer, primary hydroxy-terminated (69102-90-5)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of in accordance with the European Directives on waste and hazardous waste. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Product/Packaging disposal recommendations European List of Waste (LoW, EC 2000/532)	 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the aplication for which the product was used

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID ADR IMDG ΙΑΤΑ ADN RID 14.1. UN number or ID 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 No supplementary information available

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea (IMDG) Not applicable

Air transport (IATA) Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains substance(s) listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items: Hydroxyl terminated polybutadiene (69102-90-5)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Revision date	Modified
	Supersedes version of	Modified
16	Abbreviations and acronyms	Added
16		Added
16		Added

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose

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Abbreviations and acronyms:	
РВТ	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources Training advice

: ECHA (European Chemicals Agency).: Training staff on good practice.

Safety Data Sheet (SDS), EU

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