

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference number: FP00385 Issue date: 4/1/2020 Revision date: 11/9/2023 Supersedes version of: 5/5/2022 Version: 4.0

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

1.1. Product ic	lentifier				
Trade name:Chemical name:EC-No.:CAS-No.:Type of product:Product group:		 Poly bd 1,3-Buta 614-926 69102-9 Manufa Trade p 	 Substance Poly bd® R20 LM 1,3-Butadiene, homopolymer, hydroxy-terminated 614-926-3 69102-90-5 Manufactured Trade product Exempted from REACH registration 		
1.2. Relevant i	dentified uses of the substan	ce or mix	ture and uses advised agai	inst	
1.2.1. Relevant id Use of the substa 1.2.2. Uses advis No additional info	nce/mixture sed against	: Elastom	ners		
1.3. Details of	the supplier of the safety data	a sheet			
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. Emergence	y telephone number				
Emergency number :		 for En for Eu for Afr for Ch for Asi Japan, 	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		Vietnam, Sri Lanka,
Country	Organisation/Company		Address	Emergency number	Comment
Ireland	National Poisons Information Ce Beaumont Hospital	entre	PO Box 1297 Beaumont Road	+353 1 809 2566 (Healthcare professionals-	

		9 Dublin	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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

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 included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

Substance type	: Polymer
Name	: Poly bd® R20 LM
CAS-No.	: 69102-90-5
EC-No.	: 614-926-3

3.2. Mixtures

Not applicable

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	s, 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 a	

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Unsuitable extinguishing media	: Use of heavy stream of water may spread fire.
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard	: Heat from fire can generate flammable vapour. When mixed with air and exposed to ignitior source, can burn in open air or explode if confined.
Explosion hazard Hazardous decomposition products in case of fire	 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	: 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.
Protection during firefighting	: 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 equipment and emergency procedures		
General measures	: No flames, no sparks. Eliminate all sources of ignition.	
6.1.1. 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".	
6.1.2. For emergency responders		
No additional information available		
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 storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 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. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 	
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.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

 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

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

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

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses with side shields

8.2.2.2. 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

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state Colour Appearance Odour Odour threshold Melting point Freezing point Initial boiling point and boiling range Flammability Explosive limits Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density	 Liquid Clear to light yellow. Viscous. Not available Not available Not available Not available > 300 °C Non flammable. Not available Not available Not available > 205 °C Cleveland open cup (COC) Not available > 350 °C Not available > 350 °C Not applicable 1500 mPa·s (30°C) Water: practically insoluble Not available Not available Not available Not available Isot available > 1500 mPa·s (30°C) Vater: practically insoluble Not available 	
Relative density Relative vapour density at 20°C Particle characteristics	: 0.9 : Not available	
	: 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

No additional information available

SECTION 10: Stability and reactivity

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.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined 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) Not classified (Lack of data) 	
1,3-Butadiene, homopolymer, hydroxy-terminated (69102-90-5)		
LD50 oral rat	> 34600 mg/kg	
Skin corrosion/irritation	: Not classified (Lack of data) pH: Not applicable	
Additional information	 In contact with hot material, may cause severe thermal burns Repeated exposure may cause skin dryness or cracking. 	
Serious eye damage/irritation	: Not classified (Lack of data) pH: Not applicable	
Additional information	: In contact with hot material, may cause severe thermal burns	
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)	
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)	
1,3-Butadiene, homopolymer, hydroxy-tern	ninated (69102-90-5)	
Viscosity, kinematic	1500 mm²/s (30°C)	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
Adverse health effects caused by endocrine disrupting properties	: 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	
11.2.2. Other information		
Potential adverse human health effects and symptoms	: The working steams can irritate the eyes as well as the respiratory tract	
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		

No additional information available

12.3. Bioaccumulative potential

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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	
Adverse effects on the environment caused by endocrine disrupting properties	: 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

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	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
European List of Waste (LoW, EC 2150/2002)	 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 	
HP Code	 HP3 - "Flammable:" flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. 	

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		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.4. Packing Group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental haza	rds			·	
Dangerous for the environment: No	Dangerous for the environment: No Marine Pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	
lo supplementary information	available				
4.6. Special precautions	for user				
v erland transport o data available					
ansport by sea (IMDG) ansport regulations (IMDG)	: Not an IMDG controlled material				
r transport (IATA) ansport regulations (IATA)	: Not an IATA controlled material				
and waterway transport					
il transport data available					
I.7. Maritime transport in	n bulk according to IMO	instruments			
annlicable					

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

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)

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)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required

SECTION 16: Other information

No additional information available

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