

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference number: 3010M Issue date: 4/1/2020 Revision date: 11/9/2023 Supersedes version of: 5/5/2022 Version: 3.0

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

### 1.1. Product identifier

Product form Substance

Trade name Poly bd® R45 HTLO

Chemical name 1,3-Butadiene, homopolymer, hydroxy-terminated

EC-No. 614-926-3 CAS-No. 69102-90-5 Type of product Manufactured Product group Trade product

**REACH** authorisation exemptions Exempted from REACH registration

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

## 1.2.1. Relevant identified uses

Use of the substance/mixture : Elastomers

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data 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 Representative**

Resin Solutions Italia Srl Via Baiona 107 48123 RAVENNA

**ITALY** 

T +39 0544 459022

product.stewardship@resinsolutions.com -

https://www.resinsolutions.com/

## 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	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+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

## 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® R45 HTLO

 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

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

: 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

: The working steams can irritate the eyes as well as the respiratory tract.

Symptoms/effects after skin contact

: Contact with hot material - prevent serious burns. Repeated exposure may cause skin

dryness or cracking.

Symptoms/effects after eye contact : Contact with hot material - prevent serious burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

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.

11/9/2023 (Revision date) EN (English) 2/9

## 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 substance or mixture

Fire hazard : 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.

Explosion hazard : At high temperatures : Flammable or explosive vapour/air mixtures may be formed.

Hazardous decomposition products in case of fire : 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

Protection during firefighting : Do not atte

: 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 : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Keep recovered product for subsequent disposal.

Methods for cleaning up : 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 : 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.

## 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 : Liquid

Colour : Clear to light yellow.

**Appearance** Viscous. Odour Not available Odour threshold Not available Melting point Not available Freezing point Not available : > 300 °C Initial boiling point and boiling range Flammability : Non flammable. **Explosive limits** : Not available Lower explosion limit Not available Upper explosion limit Not available

Flash point : > 205 °C Cleveland open cup (COC)

Auto-ignition temperature : Not available

Decomposition temperature : > 350 °C

pH : Not applicable

Viscosity, kinematic : 1500 mm²/s (30°C)

Viscosity, dynamic : ~ 5000 mPa·s

Solubility : Water: practically insoluble

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available

Relative density : 0.9

Relative vapour density at 20°C : Not available Particle characteristics : 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) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Lack of data)
Acute toxicity (inhalation) : 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-terminated (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

#### 11.2.2. Other information

Potential adverse human health effects and

symptoms

Other information

: The working steams can irritate the eyes as well as the respiratory tract

Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

: 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

: Not classified (Lack of data)

(chronic)

## 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

11/9/2023 (Revision date) EN (English) 6/9

## 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

Product/Packaging disposal recommendations

European List of Waste (LoW, EC 2150/2002)

HP Code

- 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.
- : 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

: 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	IATA	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	IATA	ADN	RID
14.4. Packing Group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards			
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

## 14.6. Special precautions for user

#### **Overland transport**

No data available

Transport by sea (IMDG)

Transport regulations (IMDG) : Not an IMDG controlled material

Air transport (IATA)

Transport regulations (IATA) : Not an IATA controlled material

Inland waterway transport

No data available

#### Rail transport

No data available

## 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

### **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

Safety Data Sheet (SDS), EU