

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Parbond 522 Resin**

Print date: 22.04.2021

Product code:

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**1. Identification****Product identifier**

Parbond 522 Resin

**Details of the supplier of the safety data sheet**

Company name: Parson Adhesives, Inc.  
 Place: Rochester, MI 48309  
 Telephone: +1 248-299-5585  
 Internet: www.parsonadhesives.com  
 Responsible Department: sales@parsonadhesives.com

**Emergency phone number:** Chemtrec 1-800-262-8200**2. Hazard(s) identification****Classification of the chemical**

Hazard categories:  
 Respiratory or skin sensitization: Skin Sens. 1  
 Hazard Statements:  
 May cause an allergic skin reaction

**Label elements**

Signal word: Warning

Pictograms:

**Hazard statements**

May cause an allergic skin reaction

**Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.  
 If skin irritation or rash occurs: Get medical advice/attention.

**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

| CAS No    | Components  | Quantity |
|-----------|-------------|----------|
| 9003-36-5 | Epoxy resin | 100 %    |

**4. First-aid measures****Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of allergic symptoms, especially in



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the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

### After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water and soap. If skin irritation or rash occurs: Get medical advice/attention.

### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

### Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Foam. Carbon dioxide. Extinguishing powder. Water spray jet

#### Unsuitable extinguishing media

Full water jet

### Specific hazards arising from the chemical

Can be released in case of fire: Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl).

### Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.  
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment (refer to section 8).

### Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.  
Clean contaminated objects and areas thoroughly observing environmental regulations.

### Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13



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## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. ( See section 8. )

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

#### Further information on handling

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.  
General protection and hygiene measures: See section 8.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

#### Advice on storage compatibility

Do not store together with: Gas.. Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances.  
Infectious substances.

#### Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. Cold moisture.  
storage temperature: -18 - 5 °C

## 8. Exposure controls/personal protection

### Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff.  
Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Contaminated work clothing should not be allowed out of the workplace.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. Standards: EN 166 or 29 CFR 1910.13

#### Hand protection

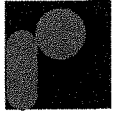
Pull-over gloves of rubber. DIN EN 374

Suitable material:

NBR (Nitrile rubber) (0,2 mm) (> 120 min.)

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Protect skin by using skin protective cream.

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**Skin protection**

Protective clothing.

**Respiratory protection**

Respiratory protection necessary at:

Generation/formation of aerosols

Generation/formation of mist

Suitable respiratory protective equipment:

Combination filter device (e.g., airline respirators with an airpurifying filter) DIN 141 or 29 CFR 1910.134 standard.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|                 |                 |
|-----------------|-----------------|
| Physical state: | viscous, liquid |
| Color:          | clear           |
| Odor:           | weak            |

|           |     |
|-----------|-----|
| pH-Value: | n/a |
|-----------|-----|

**Changes in the physical state**

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Melting point/freezing point:            | not determined                    |
| Initial boiling point and boiling range: | >260 °C                           |
| Pour point:                              | not determined                    |
| Flash point:                             | >249 °C Pensky-Martens closed cup |

**Explosive properties**

none

|                            |                |
|----------------------------|----------------|
| Lower explosion limits:    | not determined |
| Upper explosion limits:    | not determined |
| Ignition temperature:      | not determined |
| Decomposition temperature: | not determined |

**Oxidizing properties**

none

|                   |                        |
|-------------------|------------------------|
| Vapor pressure:   | not determined         |
| Density:          | 1,17 g/cm <sup>3</sup> |
| Water solubility: | practically insoluble  |

**Solubility in other solvents**

not determined

|                        |                |
|------------------------|----------------|
| Viscosity / dynamic:   | not determined |
| Viscosity / kinematic: | not determined |

**Other information**

|                |                |
|----------------|----------------|
| Solid content: | not determined |
|----------------|----------------|

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**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

Stability: Stable  
Stable under normal storage and handling conditions.

**Possibility of hazardous reactions**

Hazardous reactions: May occur  
No information available.

**Conditions to avoid**

Protect against: Light. UV-radiation/sunlight. heat. Cold moisture.

**Incompatible materials**

Oxidizing agents, strong. Strong acid, strong alkalis, Amines

**Hazardous decomposition products**Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl).**11. Toxicological information****Information on toxicological effects****Route(s) of Entry**

Ingestion: May be harmful. Inhalation: May be harmful. Skin contact: May cause skin irritation. May cause an allergic skin reaction. Eye contact: May cause eye irritation.

**Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

| CAS No    | Components                                                                           |        |             |                |              |
|-----------|--------------------------------------------------------------------------------------|--------|-------------|----------------|--------------|
|           | Exposure routes                                                                      | Method | Dose        | Species        | Source       |
| 9003-36-5 | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |        |             |                |              |
|           | oral                                                                                 | LD50   | >5000 mg/kg | Rat (OECD 401) | ECHA Dossier |
|           | dermal                                                                               | LD50   | >2000 mg/kg | Rat (OECD 402) | ECHA Dossier |

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitizing effects**

May cause an allergic skin reaction (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)

Respiratory or skin sensitisation:

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

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Based on available data, the classification criteria are not met.  
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (CAS-No.: 9003-36-5):  
Subchronic oral toxicity:  
Exposure time: 90d  
Species: Wistar Rat.  
Method: OECD Guideline 408  
Test result: NOAEL = 250 mg/kg(bw)/day  
literature information: ECHA Dossier

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): No Substance listed.

Carcinogenicity (IARC): No Substance listed.

Carcinogenicity (OSHA): No Substance listed.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

**12. Ecological information****Mobility in soil**

No data available

**Other adverse effects**

No data available

**Further information**

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

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**Transport hazard class(es):** No dangerous good in sense of this transport regulation.**Packing group:** No dangerous good in sense of this transport regulation.**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes

**Danger releasing substance:** epoxy resin (number average molecular weight  $\leq 700$ ), reaction product: bisphenol-A-(epichlorhydrin)  
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol**Special precautions for user**

refer to chapter 6-8

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not relevant

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

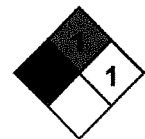
Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol: listed

**National regulatory information**

RA Section 311/312 Hazards:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5):  
Immediate (acute) health hazard**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Information Label (HMIS)**Health: \*1  
Flammability: 1  
Physical Hazard: 1  
Personal Protection: B**NFPA Hazard Ratings**Health: 1  
Flammability: 1  
Reactivity: 1  
Unique Hazard:**Changes**Revision date: 22.04.2021  
Revision No: 1,00  
Rev. 1,00; 22.04.2021, Initial release**Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level

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IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Concerning the International Transport of Dangerous Goods by Rail)  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*