

**Safety Data Sheet**  
acc. to OSHA HCS

Printing Date 05/04/2016

Revision Number 1

Revision Date 05/04/2016

**1 Identification**

- **Product identifier**
- **Trade name: Parabond M-315**
- **Relevant identified uses of the substance or mixture.** Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Royal Adhesives & Sealants, LLC  
863 South East Main Street  
Simpsonville, SC 29681  
(864) 967-7691
- **Information department:** Environment protection department.
- **Emergency telephone number:**  
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06



GHS07



GHS08

- **Signal word** Danger
- **Hazard statements**  
Toxic if inhaled.  
Causes skin and eye irritation.  
Suspected of causing cancer.

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- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

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

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**

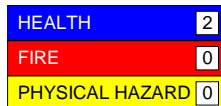


Health = 2

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Physical Hazard = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

· **Description:** Solvent

- **Hazardous components:**

|         |                                      |         |
|---------|--------------------------------------|---------|
| 75-09-2 | dichloromethane (Methylene Chloride) | 50-100% |
|---------|--------------------------------------|---------|

### \* 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Call a doctor immediately.

Overexposure, remove to fresh air and seek medical attention.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.

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- **After swallowing:**  
Rinse out mouth with water. Drink 1 - 2 glasses of water but **DO NOT** induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### \* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

### \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Mount respiratory protective device.  
Remove persons from danger area.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### \* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of aerosols.  
Open containers in a well ventilated area and avoid breathing headspace vapors.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store above 40F and below 100F.

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· **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

#### 75-09-2 dichloromethane (Methylene Chloride)

|     |  |
|-----|--|
| PEL | Short-term value: 125 ppm<br>Long-term value: 25 ppm<br>see 29 CFR 1910.1052 |
| REL | See Pocket Guide App. A  |
| TLV | Long-term value: 174 mg/m <sup>3</sup> , 50 ppm<br>BEI                       |

· **Ingredients with biological limit values:**

#### 75-09-2 dichloromethane (Methylene Chloride)

|     |   |
|-----|---|
| BEI | 0.3 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Dichloromethane (semi-quantitative) |
|-----|---|

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment (see listings below)**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.

· **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

Face protection (face shield)

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· **Body protection:** Protective work clothing

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                          |                 |
|--------------------------|-----------------|
| · <b>Form:</b>           | Fluid           |
| · <b>Color:</b>          | Clear           |
| · <b>Odor:</b>           | Characteristic  |
| · <b>Odor threshold:</b> | Not determined. |

· **pH-value:** Not determined.

· **Change in condition**

|                         |                |
|-------------------------|----------------|
| · <b>Melting point:</b> | Undetermined.  |
| · <b>Boiling point:</b> | 40 °C (104 °F) |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 605 °C (1121 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Flammable limits:**

|                 |            |
|-----------------|------------|
| · <b>Lower:</b> | 13.0 Vol % |
| · <b>Upper:</b> | 22.0 Vol % |

· **Vapor pressure at 20 °C (68 °F):** 453 hPa (340 mm Hg)

· **Specific gravity at 20 °C (68 °F):** 1.32 g/cm<sup>3</sup> (11.015 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **Other information** Grams VOC/Liter [less water. less exempts] 0.0

### 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid**  
Exposure to high temperatures.  
Temperatures below 40F (4.4C)
- **Incompatible materials:**  
Reacts with oxidizing agents.  
Reacts with strong alkali.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Hydrogen chloride (HCl)  
Chlorine  
Phosgene  
Hydrocarbons

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

75-09-2 dichloromethane (Methylene Chloride)

|            |          |                  |
|------------|----------|------------------|
| Oral       | LD50     | 1600 mg/kg (rat) |
| Inhalative | LC50/4 h | 88 mg/l (rat)    |

- **Primary irritant effect:**
- **on the skin:** Skin irritant.
- **on the eye:**  
Irritating effect.  
Vapors may be severely irritating to the eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic  
Irritant  
Carcinogenic.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

75-09-2 dichloromethane (Methylene Chloride)

2B

· **NTP (National Toxicology Program)**

75-09-2 dichloromethane (Methylene Chloride)

R

· **OSHA-Ca (Occupational Safety & Health Administration)**

All ingredients are listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:** At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **UN-Number**  
 · **DOT, ADR, IMDG, IATA** UN1593

· **UN proper shipping name**  
 · **DOT** Dichloromethane  
 · **ADR** 1593 Dichloromethane  
 · **IMDG, IATA** DICHLOROMETHANE

· **Transport hazard class(es)**

· **DOT**



· **Class** 6.1 Toxic substances  
 · **Label** 6.1

· **ADR, IMDG, IATA**



· **Class** 6.1 Toxic substances  
 · **Label** 6.1

· **Packing group**  
 · **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Toxic substances  
 · **Danger code (Kemler):** 60  
 · **EMS Number:** F-A,S-A  
 · **Segregation groups** Liquid halogenated hydrocarbons  
 · **Stowage Category** A

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- |  |                                   |
|--|-----------------------------------|
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                   |
| <b>· UN "Model Regulation":</b>  | UN 1593 DICHLOROMETHANE, 6.1, III |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

|  |  |
|--|--|
| <b>· Section 355 (extremely hazardous substances):</b> |  |
|--|--|

|                                    |  |
|------------------------------------|--|
| None of the ingredients is listed. |  |
|------------------------------------|--|

|  |  |
|--|--|
| <b>· Section 313 (Specific toxic chemical listings):</b> |  |
|--|--|

|                             |  |
|-----------------------------|--|
| All ingredients are listed. |  |
|-----------------------------|--|

|   |  |
|---|--|
| <b>· TSCA (Toxic Substances Control Act):</b> |  |
|---|--|

|  |  |
|--|--|
| All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements. |  |
|--|--|

|                         |  |
|-------------------------|--|
| <b>· Proposition 65</b> |  |
|-------------------------|--|

|   |  |
|---|--|
| <b>· Chemicals known to cause cancer:</b> |  |
|---|--|

|                             |  |
|-----------------------------|--|
| All ingredients are listed. |  |
|-----------------------------|--|

|  |  |
|--|--|
| <b>· Chemicals known to cause reproductive toxicity:</b> |  |
|--|--|

|                                    |  |
|------------------------------------|--|
| None of the ingredients is listed. |  |
|------------------------------------|--|

|   |  |
|---|--|
| <b>· Chemicals known to cause developmental toxicity:</b> |  |
|---|--|

|                                    |  |
|------------------------------------|--|
| None of the ingredients is listed. |  |
|------------------------------------|--|

|   |  |
|---|--|
| <b>· (DSL) Canada Domestic Substance List</b> |  |
|---|--|

|  |  |
|--|--|
| All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements. |  |
|--|--|

|   |  |
|---|--|
| <b>· New Jersey Right-to-Know List:</b> |  |
|---|--|

|                             |  |
|-----------------------------|--|
| All ingredients are listed. |  |
|-----------------------------|--|

|   |  |
|---|--|
| <b>· New Jersey Special Hazardous Substance List:</b> |  |
|---|--|

|  |        |
|--|--------|
| 75-09-2 dichloromethane (Methylene Chloride) | CA, MU |
|--|--------|

|   |  |
|---|--|
| <b>· Pennsylvania Right-to-Know List:</b> |  |
|---|--|

|                             |  |
|-----------------------------|--|
| All ingredients are listed. |  |
|-----------------------------|--|

|   |  |
|---|--|
| <b>· Pennsylvania Special Hazardous Substance List:</b> |  |
|---|--|

|  |    |
|--|----|
| 75-09-2 dichloromethane (Methylene Chloride) | ES |
|--|----|

|                                   |  |
|-----------------------------------|--|
| <b>· Cancerogenity categories</b> |  |
|-----------------------------------|--|

|  |  |
|--|--|
| <b>· EPA (Environmental Protection Agency)</b> |  |
|--|--|

|  |   |
|--|---|
| 75-09-2 dichloromethane (Methylene Chloride) | L |
|--|---|

|   |  |
|---|--|
| <b>· TLV (Threshold Limit Value established by ACGIH)</b> |  |
|---|--|

|  |    |
|--|----|
| 75-09-2 dichloromethane (Methylene Chloride) | A3 |
|--|----|

|   |  |
|---|--|
| <b>· MAK (German Maximum Workplace Concentration)</b> |  |
|---|--|

|  |    |
|--|----|
| 75-09-2 dichloromethane (Methylene Chloride) | 3A |
|--|----|

|   |  |
|---|--|
| <b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |  |
|---|--|

|                             |  |
|-----------------------------|--|
| All ingredients are listed. |  |
|-----------------------------|--|

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- **National regulations:**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* 16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS:** Environment protection department.
- **Creation Date:** 01/06/2014
- **Date of preparation / last revision** 05/04/2016 / -
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Acute Tox. 3: Acute toxicity – Category 3
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  - Carc. 2: Carcinogenicity – Category 2

USA