

Safety Data Sheet

Product identifier used on the label: BD HEAD GASKET RPR 12/16

Product Code: BDH00212

Revision Date: 10-07-2023

Replaces: 09-07-2023

1. Identification

Product identifier used on the label: **BD HEAD GASKET RPR 12/16**

Product Code: BDH00212

Other means of identification: BDEV0021200212

Other means of identification:

Synonyms: No data available

Recommended use of the chemical and restrictions on use:

Recommended use: Sealant

Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Highline Warren LLC

4500 Malone Road

Memphis, TN 38118

Phone number: +1-888-863-0426 Hours: M-F 8AM-5PM EST

E-mail address: sds@highlinewarren.com

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Hazard Symbols:



GHS Classification:

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2

Signal Word:

Warning

Hazard Statements:

Causes skin irritation; Causes serious eye irritation; May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

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protection.

Response:

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. Specific treatment (see Sections 4 - 8 of Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Disposal:

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

Hazards not otherwise classified:

No data available

3. Composition/information on ingredients

| Chemical Name | Common name and synonyms | CAS # | % |
|-----------------|--------------------------|-----------|---------|
| Sodium silicate | No data available | 1344-09-8 | 15 - 40 |
| Ethylene glycol | No data available | 107-21-1 | 3 - 7 |

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation:

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.

Eye Contact:

If in 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.

Skin Contact:

If on skin: Wash with plenty of water. Specific treatment (see Sections 4 - 8 of Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Ingestion:

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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Most important symptoms/effects, acute and delayed:

Nausea Mental confusion. Drowsiness. Vomiting.

Indication of immediate medical attention and special treatment needed, if necessary:

Specific treatment (see Sections 4 - 8 of Safety Data Sheet). Get medical advice/attention if you feel unwell.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Unsuitable extinguishing media:

No data available

Specific hazards arising from the chemical:

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

Hazardous combustion products:

Toxic gases, Silicon dioxide

Special protective equipment and precautions for fire-fighters:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods and materials for containment and cleaning up:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal

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protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material. Gather and store in a sealed container pending a waste disposal evaluation.

7. Handling and storage

Precautions for safe handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. Follow all protective equipment recommendations provided in Section 8.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents, Aluminum, Metals, Strong bases, Strong acids

8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

| Chemical component | OSHA PEL | ACGIH TLV | ACGIH STEL | IDLH | US WEEL |
|--------------------|----------|-----------------------------|------------------------------------------------------------------------------------------|-------------------|-------------------|
| Ethylene glycol | No PEL | 25 ppm TWA (vapor fraction) | 50 ppm STEL (vapor fraction); 10 mg/m3 STEL (inhalable particulate matter, aerosol only) | No data available | No data available |

Appropriate engineering controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Ventilation is required to maintain operator exposure below published exposure limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or using this material should be equipped with an eyewash and

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safety shower.

Individual protection measures, such as personal protective equipment:

Respiratory Protection:

Do not breathe dust/fume/gas/mist/vapors/spray.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye protection:

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available. Wear goggles and a Face shield.

Skin protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Gloves:

Wear appropriate protective gloves to prevent skin exposure.

Other protective equipment:

Wear goggles and a Face shield. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

General hygiene conditions:

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state:

Suspension

Color:

Blue

Odor:

None

Odor Threshold:

Not determined

pH:

No data available

Melting point/freezing point:

Melting Point:

No data available

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| | |
|-----------------------------------------------|-------------------|
| Freezing point: | No data available |
| Initial boiling point and boiling range (°C): | 100 |
| Flash Point (°C): | 118 |
| Evaporation Rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | |
| Upper flammability or explosive limits: | Not established |
| Lower flammability or explosive limits: | Not established |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Relative density: | 1.09 |
| Solubility(ies): | Soluble |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition Temperature: | Not determined |
| Viscosity: | No data available |

10. Stability and reactivity

| | |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity: | There are no known reactivity hazards associated with this product. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous reactions: | None expected under standard conditions of storage. |
| Conditions to avoid (e.g., static discharge, shock, or vibration): | Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Contamination. |
| Incompatible materials: | Strong oxidizing agents, Aluminum, Metals, Strong bases, Strong acids |
| Hazardous decomposition products: | Silicon dioxide |

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

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Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

Eye contact, Skin contact, Ingestion, Inhalation

Symptoms related to the physical, chemical and toxicological characteristics:

Nausea Mental confusion. Drowsiness. Vomiting.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Ingestion:

No hazard in normal industrial use. Estimated to be > 5.0 g/kg.

Skin Contact:

Causes skin irritation.

Inhalation:

At room temperature, exposure to vapor is minimal due to low volatility. Estimated to be >20 mg/l

Eye Contact:

Causes serious eye irritation

Sensitization:

Non-hazardous under Respiratory Sensitization category.No data available to indicate product or components may be a skin sensitizer.

Mutagenicity:

No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Carcinogenicity:

None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive toxicity

Not known or reported to cause reproductive or developmental toxicity.

STOT-single exposure:

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

STOT-repeated exposure:

Classification has been based on toxicological information of the components in Section 3.

Aspiration hazard:

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

Other information:

None known.

Numerical measures of toxicity (such as acute toxicity estimates) Based on available data, the classification criteria are not met.

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

| Chemical Name | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen |
|---------------------------------------------------------------------|-----------------|-----------------|----------------|
| There are no components that are known or reported to cause cancer. | | | |

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12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

Ecological Toxicity Data:

| Chemical Name | CAS # | Aquatic EC50 Crustacea | Aquatic ERC50 Algae | Aquatic LC50 Fish |
|-----------------|-----------|-------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol | 107-21-1 | EC50 (48h) Daphnia magna 46300 mg/L | EC50 (96h) Pseudokirchneriella subcapitata 6500 - 13000 mg/L | LC50 (96h) Poecilia reticulata (Guppy) 16000 mg/L LC50 (96h) Pimephales promelas (Fathead Minnow) 40000 - 60000 mg/L LC50 (96h) Rainbow Trout 40761 mg/L LC50 (96h) Lepomis macrochirus (Bluegill) 27540 mg/L LC50 (96h) Rainbow Trout 14 - 18 ml/l LC50 (96h) Rainbow Trout 41000 mg/L |
| Sodium silicate | 1344-09-8 | No data available | No data available | LC50 (96h) BRACHYDANIO RERIO 3185 mg/L LC50 (96h) Lepomis macrochirus (Bluegill) 301 - 478 mg/L |

Persistence and degradability:

Biodegrades quickly.

Bioaccumulative potential:

Bioconcentration is not expected to occur.

Mobility in soil:

This material is expected to have only slight mobility in soil. It absorbs strongly to most soil types.

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Other adverse effects (such as hazardous to the ozone layer): None known.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Dispose of contents and container in accordance with local/regional/national/international regulations.

Contaminated packaging: Empty containers may contain residues. Dispose of in the same way as waste product.

14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

DOT Basic Description: Not regulated for road transport

International carriage of dangerous goods by sea (IMDG/IMO):

UN number: Not regulated by IMDG

UN Proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

International carriage of dangerous goods by air (IATA):

UN number: Not regulated by IATA

UN Proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

Environmental hazards (e.g., Marine pollutant (Yes/No)): None.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): No data available

Special precautions which a user needs to be aware of or needs to comply with: No data available

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in connection with transport or conveyance either within or outside their premises:

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the Active US TSCA Inventory or are exempt.

Regulated Components:

| Chemical Name | CAS # | CERCLA | Sara EHS | Sara 313 | U.S. HAP |
|-----------------|-----------|--------|----------|----------|----------|
| Sodium silicate | 1344-09-8 | N | N | N | N |
| Ethylene glycol | 107-21-1 | Y | N | Y | Y |

| Chemical Name | CAS # | California Prop 65 - Cancer | California Prop 65 - Dev. Toxicity | California Prop 65 - Reprod fem | California Prop 65 - Reprod male |
|-----------------|-----------|-----------------------------|------------------------------------|---------------------------------|----------------------------------|
| Sodium silicate | 1344-09-8 | N | N | N | N |
| Ethylene glycol | 107-21-1 | N | Y | N | N |

California Prop 65

WARNING: This product can expose you to chemicals including Acetaldehyde, 1,4-Dioxane, which are known to the State of California to cause cancer, and Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more in-formation go to www.P65Warnings.ca.gov.

| Chemical Name | CAS # | Massachusetts RTK List | New Jersey RTK List | Pennsylvania RTK List | Rhode Island RTK List | Minnesota Hazardous Substance List |
|-----------------|-----------|------------------------|---------------------|-----------------------|-----------------------|------------------------------------|
| Sodium silicate | 1344-09-8 | N | N | N | N | N |
| Ethylene glycol | 107-21-1 | Y | Y | Y | N | Y |

16. Other information, including date of preparation or last revision.

SDS Prepared by: CDURSTON
Revision Date: 10-07-2023
Revision Number: 5
Reason for revision: Activated by Document Formulation Generation

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References:

No data available

Other Info:

No data available

Disclaimer:

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.