

Geon™ DB5289 RED 186 NON-PHTHALATE

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SAFETY DATA SHEET

Geon[™] DB5289 RED 186 NON-PHTHALATE

| Section 1. Identification | on | |
|--|-------------|--|
| GHS product identifier Chemical name CAS number Other means of identification Product type | : | Geon™ DB5289 RED 186 NON-PHTHALATE Mixture Mixture FO20039012 liquid |
| <u>Relevant identified uses of the subs</u> Product use | stance : | e or mixture and uses advised against Industrial applications. Plastics. |
| Supplier's details | : | POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012 |
| | | 1 (440) 930-1000 or 1 (866) POLYONE |
| Emergency telephone number (with hours of operation) | : | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

| OSHA/HCS status | : | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|--|---|--|
| Classification of the substance or mixture | : | SKIN SENSITIZATION - Category 1 |
| GHS label elements | | |

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| Hazard pictograms | : | |
|----------------------------------|---|--|
| Signal word Hazard statements | : | Warning May cause an allergic skin reaction. |
| | • | |
| Precautionary statements | | |
| General | : | Not applicable. |
| Prevention | : | Wear protective gloves. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace. |
| Response | : | IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : | None known. |
| Hazards not otherwise classified | : | None known. Not available. |

Section 3. Composition/information on ingredients

| Substance/mixture | : | Mixture |
|-------------------------------|---|------------|
| Chemical name | : | Mixture |
| Other means of identification | : | FO20039012 |

CAS number/other identifiers

| Ingredient name | % | CAS number |
|---------------------------------|---------|----------------|
| Proprietary Hazardous Compounds | 0.3 - 1 | Not available. |
| | | |
| | | |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



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Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. |
|--------------|---|--|
| Inhalation | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : | Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed

| Eye contact | : | No known significant effects or critical hazards |
|--------------|---|--|
| Inhalation | : | No known significant effects or critical hazards |
| Skin contact | : | May cause an allergic skin reaction. |
| Ingestion | : | No known significant effects or critical hazards |

Over-exposure signs/symptoms

Potential acute health effects



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| Eye contact | : No specific data. |
|---|---|
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| <u>Indication of immediate medica</u> Notes to physician | attention and special treatment needed, if necessary Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

| Suitable extinguishing media Unsuitable extinguishing media | : | In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known. |
|--|---|--|
| Specific hazards arising from the chemical Hazardous thermal decomposition products | : | In a fire or if heated, a pressure increase will occur and the container may burst. May emit Hydrogen Chloride (HCl). Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds |
| Special protective actions for fire- fighters | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|-----------------------------------|---------|---|
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Methods and materials for contain | iment a | nd cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment |

release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made |
|---------------------|---|--|
| | | |



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| | from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not |

| Advice on general occupational hygiene | : | reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|---|---|--|
| Conditions for safe storage, including any incompatibilities | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | | Exposure limits |
|----------------------------------|---|---|
| Proprietary Hazardous Compounds | | None. |
| Appropriate engineering controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Environmental exposure controls | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measures | | |
| Hygiene measures | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations |



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| Eye/face protection | : | and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
|------------------------|---|--|
| Skin protection | | |
| Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Body protection | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

Section 9. Physical and chemical properties

Appearance

| Physical state | : | liquid [liquid] |
|------------------|---|-----------------|
| Color | : | RED |
| Odor | : | Not available. |
| Odor threshold | : | Not available. |
| рН | : | Not available. |
| Melting point | : | Not available. |
| Boiling point | : | Not available. |
| Flash point | : | Not available. |
| Burning time | : | Not available. |
| Burning rate | : | Not available. |
| Evaporation rate | : | Not available. |
| | | |



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| Flammability (solid, gas) | : | Not available. |
|--|---|--|
| Lower and upper explosive | : | Lower: Not available. |
| (flammable) limits | | Upper: Not available. |
| Vapor pressure | : | Not available. |
| Vapor density | : | Not available. |
| Relative density | : | Not available. |
| Solubility | : | Not available. |
| Solubility in water | : | Not available. |
| Partition coefficient: n- | : | Not available. |
| octanol/water | | |
| Auto-ignition temperature | : | Not available. |
| Decomposition temperature | : | Not available. |
| SADT | : | Not available. |
| | | |
| Viscosity | : | Dynamic: Not available. |
| Viscosity | : | Dynamic: Not available. Kinematic: Not available. |
| Viscosity | : | · · |
| Viscosity <u>Aerosol product</u> | : | · · |
| · | : | · · |
| <u>Aerosol product</u> | · | Kinematic: Not available. |
| <u>Aerosol product</u> Heat of combustion Ignition distance | · | Kinematic: Not available. Not available. |
| <u>Aerosol product</u> Heat of combustion | : | Kinematic: Not available. Not available. Not available. |
| <u>Aerosol product</u> Heat of combustion Ignition distance Enclosed space ignition - Time | : | Kinematic: Not available. Not available. Not available. |
| <u>Aerosol product</u> Heat of combustion Ignition distance Enclosed space ignition - Time equivalent | : | Kinematic: Not available. Not available. Not available. Not available. |
| <u>Aerosol product</u> Heat of combustion Ignition distance Enclosed space ignition - Time equivalent Enclosed space ignition - | : | Kinematic: Not available. Not available. Not available. Not available. |

Section 10. Stability and reactivity

Flame duration

| Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|---|--|
| Chemical stability | : | Stable under recommended storage and handling conditions (see Section 7). |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : | Keep away from extreme heat and oxidizing agents. |
| Incompatible materials | : | Avoid contact with acetal homopolymers and acetyl homopolymers during processing. |
| Hazardous decomposition products | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

:

Not available.

Section 11. Toxicological information



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This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

| Remarks - Oral: | No applicable toxicity data | | |
|--|-----------------------------|--|--|
| Remarks - Inhalation: | No applicable toxicity data | | |
| Remarks - Dermal: | No applicable toxicity data | | |
| Conclusion/Summary | : Mixture.Not fully tested. | | |
| Irritation/Corrosion | | | |
| Conclusion/Summary | | | |
| Skin | : Mixture.Not fully tested. | | |
| Eyes | : Mixture.Not fully tested. | | |
| Respiratory | : Mixture.Not fully tested. | | |
| Sensitization | | | |
| Conclusion/Summary | | | |
| Skin | : Mixture.Not fully tested. | | |
| Respiratory | : Mixture.Not fully tested. | | |
| Mutagenicity | | | |
| Conclusion/Summary | : Mixture.Not fully tested. | | |
| Carcinogenicity | | | |
| Conclusion/Summary | : Mixture.Not fully tested. | | |
| Reproductive toxicity | | | |
| Conclusion/Summary | : Mixture.Not fully tested. | | |
| Teratogenicity | | | |
| Conclusion/Summary | : Mixture.Not fully tested. | | |
| Specific target organ toxicity Not available. | (single exposure) | | |
| Specific target organ toxicity | | | |
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Not available.

| Aspiration hazard Not available. | | |
|--|-----|---|
| Information on likely routes of exposure | : | Not available. |
| Potential acute health effects | | |
| Eye contact | : | No known significant effects or critical hazards. |
| Inhalation | : | No known significant effects or critical hazards. |
| Skin contact | : | May cause an allergic skin reaction. |
| Ingestion | : | No known significant effects or critical hazards. |
| Symptoms related to the physical, ch | emi | cal and toxicological characteristics |

| Eye contact | : | No specific data. |
|--------------|---|---|
| Inhalation | : | No specific data. |
| Skin contact | : | Adverse symptoms may include the following: irritation, redness |
| Ingestion | : | No specific data. |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

| Potential immediate effects Potential delayed effects | : | Not available. Not available. |
|--|---|---|
| Long term exposure | | |
| Potential immediate effects Potential delayed effects | : | Not available. Not available. |
| Potential chronic health effects | | |
| Conclusion/Summary | : | Mixture.Not fully tested. |
| General | : | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : | No known significant effects or critical hazards. |
| Mutagenicity | : | No known significant effects or critical hazards. |
| Teratogenicity | : | No known significant effects or critical hazards. |
| Developmental effects | : | No known significant effects or critical hazards. |



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Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure | | | |
|--|-----------------------------|-----------------------------|----------|--|--|--|
| Proprietary Hazardous Compou | inds | | | | | |
| Remarks - Acute - Fish: | No applicable toxicity data | | | | | |
| Remarks - Acute - Aquatic invertebrates.: | No applicable toxicity data | | | | | |
| Remarks - Acute - Aquatic plants: | No applicable toxicity data | No applicable toxicity data | | | | |
| Remarks - Chronic - Fish: | No applicable toxicity data | | | | | |
| Remarks - Chronic - | No applicable toxicity data | | | | | |
| Aquatic invertebrates.: | •••••• | | | | | |
| Conclusion/Summary | : Not available. | | | | | |
| Conclusion/Summary | : Not available. | | | | | |
| Bioaccumulative potential Not available. | | | | | | |
| Mobility in soil | | | | | | |
| Soil/water partition coefficie (KOC) | nt : Not available. | | | | | |
| | : No known significa | | | | | |

Section 13. Disposal considerations



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Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

| U.S.DOT 49CFR Ground/Air/Water | : Not regulated for transportation. |
|-----------------------------------|---|
| International Air ICAO/IATA | : Consult mode specific transport rules |
| International Water IMO/IMDG | : Consult mode specific transport rules |

Section 15. Regulatory information

| U.S. Federal regulations | : United States - TSCA 12(b) - Chemical export notification: None of the components are listed. |
|--------------------------|---|
| | United States - TSCA 4(a) - Final Test Rules: Not listed |
| | United States - TSCA 4(a) - ITC Priority list: Not listed |
| | United States - TSCA 4(a) - Proposed test rules: Not listed |
| | United States - TSCA 4(f) - Priority risk review: Not listed |
| | United States - TSCA 5(a)2 - Final significant new use rules: Not |
| | listed |
| | United States - TSCA 5(a)2 - Proposed significant new use rules: |
| | |



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| | | Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed 2-Ethylhexanoic acid zinc salt Phenol Vinyl chloride monomer United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed |
|---|---|--|
| Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) | : | Listed |
| Clean Air Act Section 602 Class I Substances | : | Not listed |
| Clean Air Act Section 602 Class II Substances | : | Not listed |
| DEA List I Chemicals (Precursor | : | Not listed |

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

DEA List II Chemicals (Essential

SARA 311/312

Chemicals)

Chemicals)

Classification

SKIN SENSITIZATION - Category 1 :

Not listed

:



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Composition/information on ingredients

| Name | % | Classification |
|-----------------------|--------------|--|
| Proprietary Hazardous | >= 0.3 - < 1 | FLAMMABLE LIQUIDS - Category 4 |
| Compounds | | ACUTE TOXICITY - oral - Category 4 |
| | | ACUTE TOXICITY - dermal - Category 4 |
| | | ACUTE TOXICITY - inhalation - Category 4 |
| | | SKIN CORROSION - Category 1B |
| | | SERIOUS EYE DAMAGE - Category 1 |
| | | SKIN SENSITIZATION - Category 1A |
| | | |

Not applicable.

| State regulations | | |
|--|------|--|
| Massachusetts | : | None of the components are listed. |
| New York | : | None of the components are listed. |
| New Jersey | : | The following components are listed: |
| | | Ethene, chloro-, homopolymer |
| Pennsylvania | : | None of the components are listed. |
| <u>California Prop. 65</u> | | |
| This product does not require a Safe Ha | arbo | warning under California Prop. 65. |
| United States inventory (TSCA 8b) | : | All components are active or exempted. |
| | | |
| Canada inventory | : | All components are listed or exempted. |
| | | |
| International regulations | | |
| | | |
| | | |
| Inventory list | | |
| <u>Inventory list</u> Australia | : | Not determined. |
| | : | Not determined. All components are listed or exempted. |
| Australia | : | |
| Australia Canada | : | All components are listed or exempted. |
| Australia Canada China | : | All components are listed or exempted. Not determined. |
| Australia Canada China Europe inventory | : | All components are listed or exempted. Not determined. Not determined. |
| Australia Canada China Europe inventory Japan | : | All components are listed or exempted. Not determined. Not determined. Not determined. |
| Australia Canada China Europe inventory Japan New Zealand | : | All components are listed or exempted. Not determined. Not determined. Not determined. Not determined. |
| Australia Canada China Europe inventory Japan New Zealand Philippines | : | All components are listed or exempted. Not determined. Not determined. Not determined. Not determined. Not determined. |
| Australia Canada China Europe inventory Japan New Zealand Philippines Republic of Korea | | All components are listed or exempted. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. |



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Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

| 110001. | | |
|--------------------------------|---|--|
| Date of printing | : | 01/23/2020 |
| Date of issue/Date of revision | : | 01/09/2020 |
| Date of previous issue | : | 07/21/2016 |
| Version | : | 1.2 |
| Key to abbreviations | : | ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| References | : | UN = United Nations Not available. |

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.



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