# SAFETY DATA SHEET



## 1. Identification

| Product identifier              | HARWACO BOND (DRY);             | HARWACO BOND (DRY) H |
|---------------------------------|---------------------------------|----------------------|
| Other means of identification   |                                 |                      |
| Brand Code                      | 2159, 0024, 720C                |                      |
| Recommended use                 | For Industrial Use Only         |                      |
| Recommended restrictions        | Avoid dry cutting, blasting, o  | or dust generation.  |
| Manufacturer/Importer/Supplier/ | Distributor information         |                      |
| Manufacturer                    |                                 |                      |
| Company name                    | HarbisonWalker Internation      | al                   |
| Address                         | 1305 Cherrington Parkway,       | Suite 100            |
|                                 | Moon Township, Pennsylva        | nia 15108 US         |
| Telephone                       | General Phone:                  | 412-375-6600         |
| Website                         | www.thinkHWI.com                |                      |
| Emergency phone number          | CHEMTREC 24 HOUR<br>EMERGENCY # | 1-800-424-9300       |

## 2. Hazard(s) identification

| Not classified.                                   |  |
|---|--|
| Carcinogenicity                                   | Category 1A  |
| Specific target organ toxicity, repeated exposure | Category 1   |
| Not classified.                                   |  |
| Not classified.                                   |  |
|   | Carcinogenicity<br>Specific target organ toxicity, repeated<br>exposure<br>Not classified. |

Label elements



| Signal word                                  | Danger  |
|--|---|
| Hazard statement                             | May cause cancer. Causes damage to organs through prolonged or repeated exposure.   |
| Precautionary statement                      |   |
| Prevention                                   | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response                                     | If exposed or concerned: Get medical advice/attention.  |
| Storage                                      | Store away from incompatible materials.   |
| Disposal                                     | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.   |
| Supplemental information                     | None.   |

# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                    | Common name and synonyms                              | CAS number | %        |        |
|----------------------------------|---|------------|----------|--------|
| Mullite                          |   | 1302-93-8  | 50 - 70  |        |
| Amorphous Silica                 | SILICA, AMORPHOUS, FUMED<br>SILICA (CRYSTALLINE FREE) | 7631-86-9  | 10 - 30  |        |
| Aluminium Oxide (Non-Fibrous)    |   | 1344-28-1  | 2.5 - 10 |        |
| Kaolinite                        |   | 1318-74-7  | 2.5 - 10 |        |
| Material name: HARWACO BOND (DR) | Y); HARWACO BOND (DRY) H                              |            |          | SDS US |

| Chemical name                        | Common name and synonyms | CAS number | %        |
|--------------------------------------|--------------------------|------------|----------|
| Kyanite                              |                          | 1302-76-7  | 2.5 - 10 |
| Quartz (SiO2)                        |                          | 14808-60-7 | 2.5 - 10 |
| Silicic Acid, Sodium Salt            |                          | 1344-09-8  | 2.5 - 10 |
| Titanium Dioxide                     |                          | 13463-67-7 | 2.5 - 10 |
| Cristobalite                         |                          | 14464-46-1 | 0.1 - 1  |
| Other components below reportable le | evels                    |            | 2.5 - 10 |

Other components below reportable levels

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

## 4. First-aid measures

| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.  |
|--|--|
| Skin contact   | Wash off with soap and water. Get medical attention if irritation develops and persists.   |
| Eye contact  | Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.  |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects.   |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| General information  | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

| Suitable extinguishing media                                     | Use fire-extinguishing media appropriate for surrounding materials. |
|--|---|
| Unsuitable extinguishing media                                   | Not available.  |
| Specific hazards arising from the chemical                       | Not applicable.   |
| Special protective equipment<br>and precautions for firefighters | Not available.  |

#### 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.  |
|---|--|
| Methods and materials for<br>containment and cleaning up                  | Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.  |
|   | Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.  |
|   | Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.   |
|   | Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.   |
| Environmental precautions   | Avoid discharge into drains, water courses or onto the ground.   |
| 7. Handling and storage   |  |
| Precautions for safe handling   | Obtain special instructions before use. Do not handle until all safety precautions have been read<br>and understood. Minimize dust generation and accumulation. Provide appropriate exhaust<br>ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid<br>prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed<br>systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly<br>after handling. Observe good industrial hygiene practices. |

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| US. OSHA Table Z-1 Limits for Air C<br>Components   | Type | Value                  | Form                 |
|---|------|------------------------|----------------------|
| Aluminium Oxide<br>(Non-Fibrous) (CAS<br>1344-28-1) | PEL  | 5 mg/m3                | Respirable fraction. |
| Cristobalite (CAS                                   | PEL  | 15 mg/m3<br>0.05 mg/m3 | Total dust.          |
| 14464-46-1)<br>Quartz (SiO2) (CAS                   | PEL  | 0.05 mg/m3             |                      |
| 14808-60-7)<br>Titanium Dioxide (CAS<br>13463-67-7) | PEL  | 15 mg/m3               | Total dust.          |
| US. OSHA Table Z-3 (29 CFR 1910.1)                  | 000) |                        |                      |
| Components  | Туре | Value                  | Form                 |
| Aluminium Oxide<br>(Non-Fibrous) (CAS<br>1344-28-1) | TWA  | 5 mg/m3                | Respirable fraction. |
| 1344-20-1)  |      | 15 mg/m3               | Total dust.          |
|   |      | 50 mppcf               | Total dust.          |
|   |      | 15 mppcf               | Respirable fraction. |
| Amorphous Silica (CAS                               | TWA  | 0.8 mg/m3              | •                    |
| 7631-86-9)  |      | 20 mppcf               |                      |
| Cristobalite (CAS<br>14464-46-1)                    | TWA  | 0.05 mg/m3             | Respirable.          |
|   |      | 1.2 mppcf              | Respirable.          |
| Quartz (SiO2) (CAS<br>14808-60-7)                   | TWA  | 0.1 mg/m3              | Respirable.          |
|   |      | 2.4 mppcf              | Respirable.          |
| Titanium Dioxide (CAS<br>13463-67-7)                | TWA  | 5 mg/m3                | Respirable fraction. |
|   |      | 15 mg/m3               | Total dust.          |
|   |      | 50 mppcf               | Total dust.          |
|   |      | 15 mppcf               | Respirable fraction. |
| US. ACGIH Threshold Limit Values<br>Components      | Туре | Value                  | Form                 |
| -   |      |                        | -                    |
| Aluminium Oxide<br>(Non-Fibrous) (CAS<br>1344-28-1) | TWA  | 1 mg/m3                | Respirable fraction. |
| Cristobalite (CAS<br>14464-46-1)                    | TWA  | 0.025 mg/m3            | Respirable fraction. |
| Kaolinite (CAS 1318-74-7)                           | TWA  | 1 mg/m3                | Respirable fraction. |
| Kyanite (CAS 1302-76-7)                             | TWA  | 1 mg/m3                | Respirable fraction. |
| Mullite (CAS 1302-93-8)                             | TWA  | 1 mg/m3                | Respirable fraction. |
| Quartz (SiO2) (CAS<br>14808-60-7)                   | TWA  | 0.025 mg/m3            | Respirable fraction. |
| Titanium Dioxide (CAS<br>13463-67-7)                | TWA  | 10 mg/m3               |                      |
| US. NIOSH: Pocket Guide to Chemic                   |      |                        | <b>F</b>             |
| Components  | Туре | Value                  | Form                 |
| Amorphous Silica (CAS<br>7631-86-9)                 | TWA  | 6 mg/m3                |                      |
| Quartz (SiO2) (CAS<br>14808-60-7)                   | TWA  | 0.05 mg/m3             | Respirable dust.     |

| Biological limit values             | No biological exposure limits noted for the ingredient(s).  |
|-------------------------------------|---|
| Exposure guidelines                 | Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.   |
| Appropriate engineering<br>controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. |
| Individual protection measures,     | such as personal protective equipment   |
| Eye/face protection                 | Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.   |
| Skin protection                     |   |
| Hand protection                     | Wear appropriate chemical resistant gloves.   |
| Other                               | Use of an impervious apron is recommended.  |
| Respiratory protection              | Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels<br>exceeding the exposure limits.  |
| Thermal hazards                     | Wear appropriate thermal protective clothing, when necessary.   |
|                                     |   |

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

| Appearance  |  |
|---|--|
| Physical state  | Solid.   |
| Form  | Powder.  |
| Color   | Not available.   |
| Odor  | Not available.   |
| Odor threshold  | Not available.   |
| рН  | Not available.   |
| Melting point/freezing point  | Not available.   |
| Initial boiling point and boiling range   | Not available.   |
| Flash point   | Not available.   |
| Evaporation rate  | Not available.   |
| Flammability (solid, gas)   | Not available.   |
|   |  |
| Upper/lower flammability or expl  | osive limits   |
| Upper/lower flammability or expl<br>Flammability limit - lower<br>(%)   | osive limits<br>Not available.   |
| Flammability limit - lower  |  |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper   | Not available.   |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper<br>(%)  | Not available.<br>Not available.   |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper<br>(%)<br>Explosive limit - lower (%)   | Not available.<br>Not available.<br>Not available.   |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper<br>(%)<br>Explosive limit - lower (%)<br>Explosive limit - upper (%)                                    | Not available.<br>Not available.<br>Not available.<br>Not available.                                     |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper<br>(%)<br>Explosive limit - lower (%)<br>Explosive limit - upper (%)<br>Vapor pressure                  | Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.                   |
| Flammability limit - lower<br>(%)<br>Flammability limit - upper<br>(%)<br>Explosive limit - lower (%)<br>Explosive limit - upper (%)<br>Vapor pressure<br>Vapor density | Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available.<br>Not available. |

| Partition coefficient<br>(n-octanol/water) | Not available.   |
|--|--|
| Auto-ignition temperature                  | Not available.   |
| Decomposition temperature                  | Not available.   |
| Viscosity                                  | Not available.   |
| Other information                          |  |
| Explosive properties                       | Not explosive.   |
| Oxidizing properties                       | Not oxidizing.   |
| 10. Stability and reactivity               |  |
| Popotivity                                 | The product is stable and pon-reactive under normal conditions of use, storage and transport |

| Reactivity                            | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
|---------------------------------------|--|
| Chemical stability                    | Material is stable under normal conditions.  |
| Possibility of hazardous<br>reactions | No dangerous reaction known under conditions of normal use.  |
| Conditions to avoid                   | Contact with incompatible materials.   |
| Incompatible materials                | Fluorine. Chlorine.<br>Incompatibility is based strictly upon potential theoretical reactions between chemicals and may<br>not be specific to industrial application exposure. |
| Hazardous decomposition<br>products   | No hazardous decomposition products are known.   |

## 11. Toxicological information

## Information on likely routes of exposure

| Inhalation   | May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may irritate respiratory system.  |  |  |
|--|---|--|--|
| Skin contact   | Dust or powder may irritate the skin.   |  |  |
| Eye contact  | Dust may irritate the eyes.   |  |  |
| Ingestion  | Expected to be a low ingestion hazard.  |  |  |
| Symptoms related to the physical, chemical and toxicological characteristics | Dusts may irritate the respiratory tract, skin and eyes.  |  |  |
| Information on toxicological effe  | ects  |  |  |
| Acute toxicity   | Not known.  |  |  |
| Skin corrosion/irritation  | Prolonged skin contact may cause temporary irritation.  |  |  |
| Serious eye damage/eye irritation  | Direct contact with eyes may cause temporary irritation.  |  |  |
| Respiratory or skin sensitization  |   |  |  |
| Respiratory sensitization  | Not a respiratory sensitizer.   |  |  |
| Skin sensitization   | This product is not expected to cause skin sensitization.   |  |  |
| Germ cell mutagenicity   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  |  |  |
| Carcinogenicity  | In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. |  |  |

| IARC Monographs. Overall I                            | Evaluation of Carcinogenicity   |   |  |
|---|---|---|--|
| Amorphous Silica (CAS 7                               |   | 3 Not classifiable as to carcinogenicity to humans.                               |  |
| Cristobalite (CAS 14464-46-1)                         |   | 1 Carcinogenic to humans.   |  |
| Quartz (SiO2) (CAS 1480                               |   | 1 Carcinogenic to humans.   |  |
| Titanium Dioxide (CAS 13                              |   | 2B Possibly carcinogenic to humans.   |  |
|   | ogram (NTP) Report on Carcin  | -   |  |
| Cristobalite (CAS 14464-46-1)                         |   | Known To Be Human Carcinogen.<br>Reasonably Anticipated to be a Human Carcinogen. |  |
| Quartz (SiO2) (CAS 1480<br>US. OSHA Specifically Regu | )8-60-7)<br><mark>Jlated Substances (29 CFR 19</mark> ′   | Known To Be Human Carcinogen.<br>10.1001-1050)                                    |  |
| Not regulated.  |   |   |  |
| Reproductive toxicity                                 | This product is not expected to cause reproductive or developmental effects.  |   |  |
| Developmental effects                                 |   |   |  |
| Quartz (SiO2)   |   | 0   |  |
| Developmental effects -                               | EU category   |   |  |
| Quartz (SiO2)   |   | 0   |  |
| Embryotoxicity  |   |   |  |
| Quartz (SiO2)   |   | 0   |  |
| Reproductivity  |   |   |  |
| Quartz (SiO2)   |   | 0   |  |
| Specific target organ toxicity -                      | Not classified.   |   |  |
| single exposure                                       |   |   |  |
| Specific target organ toxicity -<br>repeated exposure | Causes damage to organs through prolonged or repeated exposure.   |   |  |
| Aspiration hazard                                     | Not an aspiration hazard.   |   |  |
| Chronic effects                                       | •   | ough prolonged or repeated exposure. Prolonged inhalation may be                  |  |
|   | harmful. Prolonged exposure   |   |  |
| 12. Ecological information                            | 1   |   |  |
| Ecotoxicity   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.  |   |  |
| Persistence and degradability                         | No data is available on the degradability of this product.  |   |  |
| Bioaccumulative potential                             | No data available.  |   |  |
| Mobility in soil                                      | No data available.  |   |  |
| Other adverse effects                                 | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.   |   |  |
| 13. Disposal consideration                            |   |   |  |
| •   |   |   |  |
| Disposal instructions                                 | This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |   |  |
| Hazardous waste code                                  | Since this product is used in several industries, no Waste Code can be provided by the supplier.<br>The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.   |   |  |
| Waste from residues / unused<br>products              | Not available.  |   |  |
| Contaminated packaging                                | Not available.  |   |  |
| 14. Transport information                             |   |   |  |
| DOT   |   |   |  |
|   |   |   |  |

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

# Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

|   |   | ardouo Obernissillissi I   | fined by the OOLA U.                                 | and Communication   |
|---|---|--|--|---|
| US federal regulations  | Standard, 29 CFR 19   |  | efined by the OSHA Haza<br>Ibstances in this product |   |
| TSCA Section 12(b) Export   | Notification (40 CFR 7  | 07, Subpt. D)  |  |   |
| Not regulated.  |   |  |  |   |
| CERCLA Hazardous Subst  | ance List (40 CFR 302.4   | 4)   |  |   |
| Not listed.<br>SARA 304 Emergency relea                           | ase notification  |  |  |   |
| Not regulated.  |   |  |  |   |
| US. OSHA Specifically Reg   | ulated Substances (29   | CFR 1910.1001-1050)  |  |   |
| Not regulated.  |   |  |  |   |
| Superfund Amendments and R  | eauthorization Act of 1   | 986 (SARA)   |  |   |
| Hazard categories   | Immediate Hazard - N<br>Delayed Hazard - Yes<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - N   | 5  |  |   |
| SARA 302 Extremely hazar<br>Not listed.                           | -   |  |  |   |
| SARA 311/312 Hazardous chemical                                   | No  |  |  |   |
| SARA 313 (TRI reporting)  |   |  |  |   |
| Chemical name   |   | CAS number   | % by wt.   |   |
| Aluminium Oxide (Non-F  | Fibrous)  | 1344-28-1  | 2.5 - 10   |   |
| Clean Air Act (CAA) Sectio<br>Not regulated.                      | n 112(r) Accidental Rel   | ease Prevention (40 Cl   | FR 68.130)   |   |
| Safe Drinking Water Act<br>(SDWA)                                 | Not regulated.  |  |  |   |
| JS state regulations  | WARNING: This prod  | uct contains a chemical  | known to the State of Ca                             | alifornia to cause cancer.                                |
| US - California Propos  | ition 65 - CRT: Listed d  | ate/Carcinogenic subs  | tance  |   |
| Quartz (SiO2) (CAS  | 6 14808-60-7)   | Listed: Octob  | er 1, 1988   |   |
| Titanium Dioxide (C   |   | Listed: Septer   | -  |   |
| subd. (a))  |   | er Consumer Products   | Regulations (Cal. Cod                                | e Regs, tit. 22, 69502.3,                                 |
| Cristobalite (CAS 14<br>Quartz (SiO2) (CAS<br>Titanium Dioxide (C | 5 14808-60-7)   |  |  |   |
| nternational Inventories  |   |  |  |   |
| Country(s) or region  |   |  |  |   |
|   | Inventory name  |  |  | On inventory (yes/no)                                     |
| Australia   |   | of Chemical Substances   | (AICS)   |   |
|   |   |  | (AICS)   | Ye  |
| Australia   | Australian Inventory o<br>Domestic Substances<br>Non-Domestic Substa  | s List (DSL)<br>ances List (NDSL)  | <b>`</b>   | Ye  |
| Australia<br>Canada   | Australian Inventory o<br>Domestic Substances<br>Non-Domestic Substa  | s List (DSL)   | <b>`</b>   | Ye<br>N<br>Ye   |
| Australia<br>Canada<br>Canada                                     | Australian Inventory of<br>Domestic Substances<br>Non-Domestic Substa<br>Inventory of Existing  | s List (DSL)<br>ances List (NDSL)<br>Chemical Substances in<br>f Existing Commercial C   | China (IECSC)  | Ye<br>N<br>Ye<br>Ye<br>Ye                                 |
| Australia<br>Canada<br>Canada<br>China                            | Australian Inventory of<br>Domestic Substances<br>Non-Domestic Substa<br>Inventory of Existing of<br>European Inventory of<br>Substances (EINECS                          | s List (DSL)<br>ances List (NDSL)<br>Chemical Substances in<br>f Existing Commercial C   | China (IECSC)<br>Chemical                            | Ye<br>N<br>Ye<br>Ye<br>Ye                                 |
| Australia<br>Canada<br>Canada<br>China<br>Europe                  | Australian Inventory of<br>Domestic Substances<br>Non-Domestic Substa<br>Inventory of Existing of<br>European Inventory of<br>Substances (EINECS<br>European List of Noti | s List (DSL)<br>ances List (NDSL)<br>Chemical Substances in<br>f Existing Commercial C   | China (IECSC)<br>Chemical<br>es (ELINCS)             | Ye<br>N<br>Ye<br>Ye<br>Ye<br>N                            |
| Australia<br>Canada<br>Canada<br>China<br>Europe<br>Europe        | Australian Inventory of<br>Domestic Substances<br>Non-Domestic Substa<br>Inventory of Existing of<br>European Inventory of<br>Substances (EINECS<br>European List of Noti | s List (DSL)<br>ances List (NDSL)<br>Chemical Substances in<br>of Existing Commercial C<br>of<br>fied Chemical Substance<br>and New Chemical Substance | China (IECSC)<br>Chemical<br>es (ELINCS)             | On inventory (yes/no)<br>Ye<br>No<br>Ye<br>Ye<br>Ye<br>Ye |

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

New Zealand Inventory

New Zealand

Philippines

Yes

No

#### Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

| Issue date           | 08-22-2017   |
|----------------------|--|
| Revision date        | 12-17-2018   |
| Version #            | 02   |
| Disclaimer           | This information is based on our present knowledge on creation date. However, this shall not<br>constitute a guarantee for any specific product features and shall not establish a legally valid<br>contractual relationship.                |
| Revision information | Product and Company Identification: Product Codes<br>Composition / Information on Ingredients: Component Summary<br>Ecological Information: Ecotoxicity<br>Transport Information: Material Transportation Information<br>GHS: Classification |