In accordance with the Standard for Classification and Labelling of Chemical Substance and Material Safety Data Sheet, Article 10 Paragraph

SAFETY DATA SHEET

Chartek 2218 Part B

| Α. | Product name | : | Chartek 2218 Part B |
|----|--|------|---|
| | Product code | : | HCA026 |
| | Identified uses | : | Professional application of coatings and inks Industrial application of coatings and inks |
| В. | Relevant identified uses | of t | he substance or mixture and uses advised against |
| | Not applicable. | | |
| C. | Manufacturer | : | International Farg AB Holmedalen 3 Aspereds Industriomrade SE-424 22 Angered Sweden |
| | | | Tel: +46 (0) 31 928500 Fax: +46 (0) 31 928530 |
| | Emergency telephone number (with hours of operation) | : | +46 8 33 12 31 |
| | mail address of person esponsible for this SDS | : | sdsfellinguk@akzonobel.com |

Section 2. Hazards identification

| A. Hazard classification | : SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
|--------------------------|---|
| | SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 2 |

B. GHS label elements, including precautionary statements .

| Symbol | |
|--------------------------------|--|
| Signal word | : Danger |
| Hazard statements | : Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. |
| Precautionary statem | <u>ents</u> |
| Prevention | : Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. |
| Storage | : Store in a well-ventilated place. Keep container tightly closed. |
| : | |
| Date of issue/Date of revision | : 19/04/2016. AkzoNobel |

Section 2. Hazards identification

| Disposal | | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
|--------------------------------|--------------------------------------|---|---|
| Supplemental label elements | | : | Wear appropriate respirator when ventilation is inadequate. |
| C. | Other hazards which do not result in | : | None known. |

classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

| Ingredient name | Common name | CAS number | % | Classification |
|--|---|-------------|------------|--|
| Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis (oxy)]bis[2-chloroethane] and sodium sulfide (Na2(Sx)), reduced | Propane, 1,2,3-trichloro-, polymer with 1,1'- [methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide, reduced | 68611-50-7 | >=40 - <50 | Aquatic Chronic 2, H411 |
| titanium dioxide | Titanium dioxide | 13463-67-7 | >=10 - <15 | Not classified. |
| Man-made vitreous (silicate) fibres | Man-made vitreous (silicate) fibres | 287922-11-6 | <10 | Skin Irrit. 2, H315 |
| 2,4,6-tris(dimethylaminomethyl) phenol | () | 90-72-2 | <10 | Acute Tox. 4, H312 Skin Corr. 1, H314 Skin Sens. 1, H317 |

There are no 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.

Section 4. First-aid measures

| Α. | Eye contact | : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. |
|----|--------------|---|
| В. | Skin contact | : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| с. | Inhalation | : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |



Section 4. First-aid measures

| D. | Ingestion | : | Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. |
|----|----------------------------|---|--|
| Е. | Notes to physician | : | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | Specific treatments | : | No specific treatment. |
| | Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. Fire-fighting measures

| | • | | • |
|----|---|---|---|
| Α. | Extinguishing media | | |
| | Suitable extinguishing media | : | Use an extinguishing agent suitable for the surrounding fire. |
| | Unsuitable extinguishing media | : | None known. |
| В. | Specific hazards arising from the chemical | : | This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| | Hazardous thermal decomposition products | : | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides |
| C. | 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. |
| | Special precautions 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. |

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Section 6. Accidental release measures

| Α. | Personal precautions, protective equipment and emergency procedures | : | 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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|----|--|-----|---|
| В. | Environmental precautions | : | Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| C. | Methods and materials fo | r c | containment and cleaning up |
| | Small spill | : | Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| | Large spill | : | Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

A. 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 release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|----|--|---|--|
| | Advice on general occupational hygiene | : | 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. |
| В. | 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. |

Section 8. Exposure controls/personal protection

A. <u>Control parameters</u>

:

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------|--|
| titanium dioxide | Ministry of Labor (Republic of Korea, 3/2012). TWA: 10 mg/m³ 8 hours. Form: total dust with less than 1% of free SiO2 |



Section 8. Exposure controls/personal protection

| 0 | Section o. Exposure controls/personal protection | | | | |
|----|--|-----|--|--|--|
| В. | Appropriate engineering controls | : | If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. | | |
| | 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. | | |
| C. | Personal protective equip | omo | <u>ent</u> | | |
| | Respiratory protection | : | Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. | | |
| | Eye protection | : | 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. | | |
| | Hand protection | | Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. | | |
| | 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. | | |
| | Hygiene measures | : | Wash hands, forearms and face thoroughly after handling chemical products, before | | |

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 and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

| Α. | <u>Appearance</u> | | |
|----|--------------------------------|---|----------------|
| | Physical state | : | Solid. |
| | Colour | : | Off-white. |
| В. | Odour | : | Amine-like. |
| С. | Odour threshold | : | Not available. |
| D. | рН | : | Not available. |
| Е. | Melting/freezing point | : | Not available. |
| F. | Boiling point/boiling range | : | Not available. |



Section 9. Physical and chemical properties

| G. Flash point : Closed cup: 101°C (213.8°F) H. Evaporation rate : Not available. I. Flammability (solid, gas) : Not available. J. Lower and upper explosive (flammable) limits : Not available. K. Vapour pressure : Not available. L. Solubility : Insoluble in the following materials: cold water and hot water. M. Vapour density : Not available. N. Relative density : 1.51 O. Partition coefficient: n- octanol/water : Not available. P. Auto-ignition temperature : Not available. Q. Decomposition temperature : Not available. R. Viscosity : Kinematic (room temperature): 999 mm²/s (999 cSt) S. Molecular weight : Not applicable | _ | | | and encounter to the encounter of the second s |
|---|----|---------------------------|---|--|
| I.Flammability (solid, gas) Lower and upper explosive (flammable) limits:Not available.J.Lower and upper explosive (flammable) limits:Not available.K.Vapour pressure:Not available.L.Solubility:Insoluble in the following materials: cold water and hot water.M.Vapour density:Not available.N.Relative density:1.51O.Partition coefficient: n- octanol/water:Not available.P.Auto-ignition temperature:Not available.Q.Decomposition temperature:Not available.R.Viscosity:Kinematic (room temperature): 999 mm²/s (999 cSt) | G. | Flash point | : | Closed cup: 101°C (213.8°F) |
| J.Lower and upper explosive (flammable) limits: Not available.K.Vapour pressure: Not available.L.Solubility: Insoluble in the following materials: cold water and hot water.M.Vapour density: Not available.N.Relative density: 1.51O.Partition coefficient: n- octanol/water: Not available.P.Auto-ignition temperature: Not available.Q.Decomposition temperature: Not available.R.Viscosity: Kinematic (room temperature): 999 mm²/s (999 cSt) | Н. | Evaporation rate | : | Not available. |
| explosive (flammable) limitsNot available.K. Vapour pressure: Not available.L. Solubility: Insoluble in the following materials: cold water and hot water.M. Vapour density: Not available.N. Relative density: 1.51O. Partition coefficient: n- octanol/water: Not available.P. Auto-ignition temperature: Not available.Q. Decomposition temperature: Not available.R. Viscosity: Kinematic (room temperature): 999 mm²/s (999 cSt) | I. | Flammability (solid, gas) | : | Not available. |
| L.Solubility: Insoluble in the following materials: cold water and hot water.M.Vapour density: Not available.N.Relative density: 1.51O.Partition coefficient: n- octanol/water: Not available.P.Auto-ignition temperature: Not available.Q.Decomposition temperature: Not available.R.Viscosity: Kinematic (room temperature): 999 mm²/s (999 cSt) | J. | explosive (flammable) | : | Not available. |
| M. Vapour density : Not available. N. Relative density : 1.51 O. Partition coefficient: n-octanol/water : Not available. P. Auto-ignition temperature : Not available. Q. Decomposition temperature : Not available. R. Viscosity : Kinematic (room temperature): 999 mm²/s (999 cSt) | Κ. | Vapour pressure | : | Not available. |
| N. Relative density : 1.51 O. Partition coefficient: n-octanol/water : Not available. P. Auto-ignition temperature : Not available. Q. Decomposition temperature : Not available. R. Viscosity : Kinematic (room temperature): 999 mm²/s (999 cSt) | L. | Solubility | : | Insoluble in the following materials: cold water and hot water. |
| O. Partition coefficient: n- octanol/water : Not available. P. Auto-ignition temperature : Not available. Q. Decomposition temperature : Not available. R. Viscosity : Kinematic (room temperature): 999 mm²/s (999 cSt) | М. | Vapour density | : | Not available. |
| octanol/waterP.Auto-ignition temperature: Not available.Q.Decomposition temperature: Not available.R.Viscosity: Kinematic (room temperature): 999 mm²/s (999 cSt) | Ν. | Relative density | : | 1.51 |
| temperature Q. Decomposition temperature R. Viscosity : Kinematic (room temperature): 999 mm²/s (999 cSt) | 0. | | : | Not available. |
| temperatureR. Viscosity: Kinematic (room temperature): 999 mm²/s (999 cSt) | Ρ. | • | : | Not available. |
| | Q. | - | : | Not available. |
| S Molecular weight · Not applicable | R. | Viscosity | : | Kinematic (room temperature): 999 mm ² /s (999 cSt) |
| o. molecular weight . Not applicable. | S. | Molecular weight | : | Not applicable. |

Section 10. Stability and reactivity

| Α. | Chemical stability | : | The product is stable. |
|----|------------------------------------|---|---|
| | Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| В. | Conditions to avoid | : | No specific data. |
| C. | Incompatible materials | : | No specific data. |

| D. Hazardous | : | Under normal conditions of storage and use, hazardous decomposition products |
|------------------------|---|--|
| decomposition products | | should not be produced. |

Section 11. Toxicological information

| Α. | Information on the likely | : | Not available. |
|----|---------------------------|---|----------------|
| | routes of exposure | | |

Potential acute health effects

| Inhalation | : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
|---------------------------|--|
| Ingestion | : Irritating to mouth, throat and stomach. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye damage. |
| <u>Over-exposure sign</u> | <u>s/symptoms</u> |
| Inhalation | : No specific data. |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness blistering may occur |



Section 11. Toxicological information

Eye contact

: Adverse symptoms may include the following: pain watering redness

B. Health hazards

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------------|-------------|---------|------------|----------|
| 2,4,6-tris (dimethylaminomethyl) | LD50 Dermal | Rat | 1280 mg/kg | - |
| phenol | LD50 Oral | Rat | 1200 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--|---------------|-------|---|-------------|
| titanium dioxide | Skin - Mild irritant | Human | - | 72 hours 300 Micrograms Intermittent | - |
| 2,4,6-tris (dimethylaminomethyl) phenol | Eyes - Severe irritant | Rabbit | - | 24 hours 50 Micrograms | - |
| r | Skin - Mild irritant | Rat | - | 0.025 Mililiters | - |
| | Skin - Severe irritant Skin - Severe irritant | Rat Rabbit | - | 0.25 Mililiters 24 hours 2 milligrams | - |

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential chronic health effects

Chronic toxicity

Not available.

General

:

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.



Section 11. Toxicological information

| 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. |
| Fertility effects | : No known significant effects or critical hazards. |

ATE value

| Route | Result | |
|--------|---------------|--|
| Dermal | 33407.7 mg/kg | |

Section 12. Ecological information

A. Ecotoxicity

Not available.

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|------------|----------|------------|
| titanium dioxide 2,4,6-tris (dimethylaminomethyl) phenol | - 0.219 | 352 - | low low |

D. Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

- A. Disposal methods
 : The generation of waste should be avoided or minimised 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.
 B. Disposal precautions
 : This material and its container must be disposed of in a safe way. Care should be
 - . Disposal precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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X.International.

Section 14. Transport information

| | UN | IMDG | ΙΑΤΑ |
|----------------------------------|---|---|---|
| A. UN number | UN3077 | UN3077 | UN3077 |
| B. UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Propane, 1,2, 3-trichloro-, polymer with 1,1'- [methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide (Na2(Sx)), reduced) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Propane, 1,2, 3-trichloro-, polymer with 1,1'- [methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide (Na2(Sx)), reduced). Marine pollutant (Propane, 1,2, 3-trichloro-, polymer with 1,1'- [methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide (Na2(Sx)), reduced) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Propane, 1,2, 3-trichloro-, polymer with 1,1'- [methylenebis(oxy)]bis [2-chloroethane] and sodium sulfide (Na2(Sx)), reduced) |
| C. Transport hazard class(es) | | | |
| D. Packing group | Ш | Ш | Ш |
| E. Environmental hazards | Yes. | Yes. | Yes. |
| F. Additional information | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |

IMDG Code Segregation group

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

A. <u>Regulation according to ISHA</u>

| : None of the components are listed. | | | | | | | |
|---|--|--|--|--|--|--|--|
| : None of the components are listed. | | | | | | | |
| : Not applicable. | | | | | | | |
| Exposure Limits of Chemical Substances and Physical Factors | | | | | | | |
| The following components have an OEL: titanium dioxide | | | | | | | |
| : None of the components are listed. | | | | | | | |
| : The following components are listed: Titanium dioxide | | | | | | | |
| | | | | | | | |





Section 15. Regulatory information

| | o di ci i ci i ci gali | | | | |
|----|--|----|---|--|--|
| | Harmful Factors Subject to Special Health Check- up | : | None of the components are listed. | | |
| | Hazardous Substances Subject to Control | : | The following components are listed: Titanium dioxide | | |
| В. | Regulation according to 1 | ГС | <u>CA</u> | | |
| | TCCA Toxic chemicals | : | Not applicable | | |
| | TCCA Observational chemicals | : | None of the components are listed. | | |
| | TCCA Article 32 (Banned) | : | None of the components are listed. | | |
| | TCCA Article 32 (Restricted) | : | None of the components are listed. | | |
| | TCCA Article 17 (TRI) | : | The following components are listed: Boron and its compounds | | |
| | Korea inventory | : | Not determined. | | |
| | Accident Precaution chemicals | : | None of the components are listed. | | |
| C. | Dangerous Materials Safety Management Act | : | Not available. | | |
| D. | Wastes regulation | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. | | |
| Е. | . <u>Regulation according to other foreign laws</u> | | | | |
| | Europe inventory | : | Not determined. | | |
| | United States inventory (TSCA 8b) | : | Not determined. | | |
| | Japan inventory | : | Not determined. | | |
| | Safety, health and environmental regulations specific for the product | : | No known specific national and/or regional regulations applicable to this product (including its ingredients). | | |

Section 16. Other information

| A. R | References | : | Not available. |
|------|----------------------------------|---|----------------|
| | oate of issue/Date of evision | : | 19/04/2016. |
| C. V | ersion | : | 1 |
| D | Date of printing | : | 19/04/2016. |

D. Other

V Indicates information that has changed from previously issued version.

| 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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations |
|----------------------|--|
|----------------------|--|

Notice to reader



Section 16. Other information

IMPORTANT NOTE: the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

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