# **SAFETY DATA SHEET**



Date of issue/Date of revision 15 April 2024

Version 1.01

| Section 1. Identification   |   |  |
|---|---|--|
| Product code  | : 00472670  |  |
| Product name  | : SIGMA NEXEON 710 N REDBROWN   |  |
| Product type  | : Liquid.   |  |
| Relevant identified uses of the substance or mixture and uses advised against |   |  |
| Product use   | : Antifouling products<br>Professional applications, Used by spraying.                                |  |
| Supplier's details  | : PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803.<br>Tel +65 68653737 |  |
| Emergency telephone<br>number (with hours of<br>operation)                    | : CHEMTREC +(65)-31581349 (CCN 17704)   |  |

# Section 2. Hazards identification

| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4 |
|--|--|
|  | ACUTE TOXICITY (inhalation) - Category 2                               |
|  | SKIN CORROSION/IRRITATION - Category 2                                 |
|  | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1                        |
|  | TOXIC TO REPRODUCTION - Category 1B                                    |
|  | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2        |
|  | AQUATIC HAZARD (ACUTE) - Category 1                                    |
|  | AQUATIC HAZARD (LONG-TERM) - Category 1                                |

GHS label elements, including precautionary statements

| Hazard pictograms |  |
|-------------------|--|
| Signal word       | : Danger   |
| Hazard statements | <ul> <li>Flammable liquid and vapor.<br/>Harmful if swallowed.<br/>Causes skin irritation.<br/>Causes serious eye damage.<br/>Fatal if inhaled.<br/>May damage fertility or the unborn child.<br/>May cause damage to organs through prolonged or repeated exposure. (central</li> </ul> |

## Section 2. Hazards identification

nervous system (CNS), hearing organs) Very toxic to aquatic life with long lasting effects.

| Precautionary statements                            |  |
|---|--|
| Prevention  | : Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. In case of inadequate ventilation wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling.  |
| Response  | : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF<br>INHALED: Remove person to fresh air and keep comfortable for breathing.<br>Immediately call a POISON CENTER or doctor. Take off contaminated clothing and<br>wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse<br>cautiously with water for several minutes. Remove contact lenses, if present and<br>easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Storage   | : Not applicable.  |
| Disposal  | : Not applicable.  |
| Other hazards which do not result in classification | : Prolonged or repeated contact may dry skin and cause irritation.   |

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### CAS number/other identifiers

| CAS number      | : Not applicable. |
|-----------------|-------------------|
| EC number       | : Mixture.        |
| Ingredient name |                   |

| Ingredient name  | %        | CAS number  |
|--|----------|-------------|
| ethylbenzene   | 10 - <20 | 100-41-4    |
| xylene   | 10 - <20 | 1330-20-7   |
| 1-methoxy-2-propanol   | 5 - <10  | 107-98-2    |
| pyrithione zinc  | 5 - <10  | 13463-41-7  |
| Talc , not containing asbestiform fibres   | 5 - <10  | 14807-96-6  |
| 1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-                               | 3 - <5   | 122454-29-9 |
| Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid<br>and 1,3-phenylenedimethanamine | 0.3 - <1 | 911674-82-3 |

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.

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

#### Description of necessary first aid measures

| Eye contact  | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.  |
|--------------|--|
|              | In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.   |
| Inhalation   | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.   |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. |
| Ingestion    | : If swallowed, seek medical advice immediately and show this container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.   |

#### Most important symptoms/effects, acute and delayed

| Potential acute health effects |   |  |  |
|--------------------------------|---|--|--|
| Eye contact :                  | Causes serious eye damage.  |  |  |
| Inhalation :                   | Fatal if inhaled.   |  |  |
| Skin contact :                 | Causes skin irritation. Defatting to the skin.  |  |  |
| Ingestion :                    | Harmful if swallowed.   |  |  |
| Over-exposure signs/sympton    | <u>ns</u>   |  |  |
| Eye contact :                  | Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |  |  |
| Inhalation :                   | Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |  |  |
| Skin contact :                 | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations |  |  |

### Section 4. First aid measures

| Ingestion | : Adverse symptoms may include the following:<br>stomach pains<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations |
|-----------|--|
|           |  |

Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br/>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<br/>is suspected that fumes are still present, the rescuer should wear an appropriate<br/>mask or self-contained breathing apparatus. It may be dangerous to the person<br/>providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing<br/>thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

| Extinguishing media                               |  |
|---|--|
| Suitable extinguishing media                      | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| Unsuitable extinguishing media                    | : Do not use water jet.  |
| Specific hazards arising from the chemical        | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is very toxic to aquatic life with<br>long lasting effects. Fire water contaminated with this material must be contained<br>and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products          | : Decomposition products may include the following materials:<br>carbon oxides<br>nitrogen oxides<br>sulfur oxides<br>halogenated compounds<br>metal oxide/oxides  |
| 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |
| Special protective<br>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

Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.<br>Put on appropriate personal protective equipment.   |
|--------------------------------|--|
| For emergency responders       | If specialized clothing is required to deal with the spillage, take note of any<br>information in Section 8 on suitable and unsuitable materials. See also the<br>information in "For non-emergency personnel".  |
|                                | Avoid dispersal of spilled material and runoff and contact with soil, waterways,<br>drains and sewers. Inform the relevant authorities if the product has caused<br>environmental pollution (sewers, waterways, soil or air). Water polluting material.<br>May be harmful to the environment if released in large quantities. Collect spillage.  |
| Methods and materials for con  | tainment and cleaning up   |
| Small spill                    | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach 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 non-combustible, 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

|  | _ |   |
|--|---|---|
| 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.   |
| Conditions for safe storage,<br>including any<br>incompatibilities | : | Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use. |
|  |   |   |

# Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

| Ingredient name   | Exposure limits                                    |
|---|--|
| ethylbenzene  | Workplace Safety and Health Act                    |
| •   | (Singapore, 2/2006).                               |
|   | PEL (short term): 543 mg/m <sup>3</sup> 15 minutes |
|   | PEL (short term): 125 ppm 15 minutes.              |
|   | PEL (long term): 434 mg/m <sup>3</sup> 8 hours.    |
|   | PEL (long term): 100 ppm 8 hours.                  |
| xylene  | Workplace Safety and Health Act                    |
|   | (Singapore, 2/2006). [Xylene]                      |
|   | PEL (short term): 651 mg/m <sup>3</sup> 15 minutes |
|   | PEL (short term): 150 ppm 15 minutes.              |
|   | PEL (long term): 434 mg/m <sup>3</sup> 8 hours.    |
|   | PEL (long term): 100 ppm 8 hours.                  |
| 1-methoxy-2-propanol  | Workplace Safety and Health Act                    |
|   | (Singapore, 2/2006). [Propylene glycol             |
|   | monomethyl ether]                                  |
|   | PEL (short term): 553 mg/m <sup>3</sup> 15 minutes |
|   | PEL (short term): 150 ppm 15 minutes.              |
|   | PEL (long term): 369 mg/m <sup>3</sup> 8 hours.    |
|   | PEL (long term): 100 ppm 8 hours.                  |
| Talc , not containing asbestiform fibres                          | Workplace Safety and Health Act                    |
|   | (Singapore, 2/2006).                               |
|   | PEL (long term): 2 mg/m <sup>3</sup> 8 hours.      |
| Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic | ACGIH TLV (United States).                         |
| acid and 1,3-phenylenedimethanamine                               | TWA: 3 mg/m <sup>3</sup> , (Respirable fraction)   |

#### procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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|-----------|--------------|------------|
|-----------|--------------|------------|

Product name SIGMA NEXEON 710 N REDBROWN

# Section 8. Exposure controls/personal protection

| Appropriate engineering<br>controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.   | ols  |
|-------------------------------------|--|------|
| Environmental exposure controls     | : Emissions from ventilation or work process equipment should be checked to ensut<br>they comply with the requirements of environmental protection legislation. In som<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.  |      |
| Individual protection meas          | res  |      |
| Hygiene measures                    | : Wash hands, forearms and face thoroughly after handling chemical products, before ating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.   |      |
| Eye/face protection                 | : Chemical splash goggles and face shield.   |      |
| 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 indicat this is necessary. Considering the parameters specified by the glove manufacture 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. | es   |
| Gloves                              | : For prolonged or repeated handling, use the following type of gloves:  |      |
|                                     | Not recommended: nitrile rubber<br>Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®, neoprene, natural<br>rubber (latex)   |      |
| Body protection                     | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves.   | ,    |
| 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              | : 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this necessary.  | ; is |

# Section 9. Physical and chemical properties

| Appearance                |                                  |  |
|---------------------------|----------------------------------|--|
| Physical state            | .iquid.                          |  |
| Odor                      | Characteristic.                  |  |
| рН                        | lot applicable.                  |  |
| Boiling point             | •37.78°C (>100                   | °F)  |
| Flash point               | Closed cup: 23°                  | C (73.4°F)   |
| Evaporation rate          | lighest known v<br>outyl acetate | value: 0.84 (ethylbenzene) Weighted average: 0.81compared with                             |
| Flammability (solid, gas) | quid                             |  |
| Vapor pressure            |                                  | value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted<br>Pa (8.03 mm Hg) (at 20°C) |
| Vapor density             | lighest known \<br>)             | value: 3.7 (Air = 1) (ethylbenzene). Weighted average: 3.56 (Air =                         |
| Relative density          | .46                              |  |
| Colubility/ico)           | Vedia                            | Result   |
| Solubility(ies)           | cold water                       | Not soluble  |
| Auto-ignition temperature | owest known v                    | alue: 270°C (518°F) (1-methoxy-2-propanol).  |
| Viscosity                 | Kinematic (40°C                  | C (104°F)): >21 mm²/s (>21 cSt)  |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
|------------------------------------|---|
| Chemical stability                 | : The product is stable.  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.   |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.  |
| Hazardous decomposition products   | <ul> <li>Depending on conditions, decomposition products may include the following<br/>materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds<br/>metal oxide/oxides</li> </ul> |

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result                          | Species | Dose           | Exposure |
|---|---------------------------------|---------|----------------|----------|
| ethylbenzene  | LC50 Inhalation Vapor           | Rat     | 17.8 mg/l      | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 17.8 g/kg      | -        |
|   | LD50 Oral                       | Rat     | 3.5 g/kg       | -        |
| xylene  | LD50 Dermal                     | Rabbit  | 1.7 g/kg       | -        |
|   | LD50 Oral                       | Rat     | 4.3 g/kg       | -        |
| 1-methoxy-2-propanol  | LC50 Inhalation Vapor           | Rat     | >7000 ppm      | 6 hours  |
|   | LD50 Dermal                     | Rabbit  | 13 g/kg        | -        |
|   | LD50 Oral                       | Rat     | 5.2 g/kg       | -        |
| pyrithione zinc   | LC50 Inhalation Dusts and mists | Rat     | 0.14 mg/l      | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | >2 g/kg        | -        |
|   | LD50 Oral                       | Rat     | 177 mg/kg      | -        |
| 1H-Pyrrole-3-carbonitrile,  | LC50 Inhalation Dusts and mists | Rat     | <0.25 mg/l     | 4 hours  |
| 4-bromo-2-(4-chlorophenyl)  |                                 |         |                |          |
| -5-(trifluoromethyl)-   |                                 |         |                |          |
|   | LD50 Dermal                     | Rat     | 520 to 750 mg/ | -        |
|   |                                 |         | kg             |          |
|   | LD50 Oral                       | Rat     | 28.7 mg/kg     | -        |
| Reaction products of<br>12-hydroxyoctadecanoic<br>acid and octadecanoic acid<br>and | LC50 Inhalation Dusts and mists | Rat     | >5.08 mg/l     | 4 hours  |
| 1,3-phenylenedimethanamine  |                                 |         |                |          |

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

| Product/ingredient name | Result   | Species  | Score      | Exposure           | Observation |
|-------------------------|--|--|------------|--------------------|-------------|
| xylene                  | Skin - Moderate irritant                           | Rabbit   | -          | 24 hours 500<br>mg | -           |
| pyrithione zinc         | Eyes - Cornea opacity                              | Rabbit   | 4          | 24 hours           | 24 hours    |
| Conclusion/Summary      | ·  | •  |            | ·                  |             |
| Skin :                  | There are no data available                        | e on the mixtur                                    | e itself.  |                    |             |
| Eyes :                  | There are no data available                        | e on the mixtur                                    | e itself.  |                    |             |
| Respiratory :           | There are no data available                        | There are no data available on the mixture itself. |            |                    |             |
| Sensitization           |  |  |            |                    |             |
| Conclusion/Summary      |  |  |            |                    |             |
| Skin :                  | There are no data available                        | e on the mixtur                                    | e itself.  |                    |             |
| Respiratory :           | There are no data available on the mixture itself. |  |            |                    |             |
| Mutagenicity            |  |  |            |                    |             |
| Conclusion/Summary      | : There are no data availabl                       | e on the mixtu                                     | re itself. |                    |             |
| Carcinogenicity         |  |  |            |                    |             |
| Conclusion/Summary      | : There are no data availabl                       | e on the mixtu                                     | re itself. |                    |             |
| Reproductive toxicity   |  |  |            |                    |             |

**Conclusion/Summary** : There are no data available on the mixture itself.

#### **Teratogenicity**

#### **Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

| Name                                     | Category   | Route of exposure | Target organs                |  |
|--|------------|-------------------|------------------------------|--|
| xylene                                   | Category 3 | -                 | Respiratory tract irritation |  |
| 1-methoxy-2-propanol                     | Category 3 | -                 | Narcotic effects             |  |
| Talc , not containing asbestiform fibres | Category 3 | -                 | Respiratory tract irritation |  |

#### Specific target organ toxicity (repeated exposure)

| Name   | Category   | Route of exposure | Target organs                   |
|--|------------|-------------------|---------------------------------|
| ethylbenzene   | Category 2 | -                 | hearing organs                  |
| pyrithione zinc  | Category 1 | -                 | -                               |
| 1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl)-5-<br>(trifluoromethyl)- | Category 1 | oral              | central nervous<br>system (CNS) |
|  | Category 2 | inhalation        |                                 |

#### Aspiration hazard

| Name   | Result                         |
|--------|--------------------------------|
|        | ASPIRATION HAZARD - Category 1 |
| xylene | ASPIRATION HAZARD - Category 1 |

| Information on the likely<br>routes of exposure   | : Not available.   |
|---|--|
| Potential acute health effects                    |  |
| Eye contact                                       | : Causes serious eye damage.   |
| Inhalation  | : Fatal if inhaled.  |
| Skin contact                                      | : Causes skin irritation. Defatting to the skin.   |
| Ingestion   | : Harmful if swallowed.  |
| <u>Symptoms related to the phy</u><br>Eye contact | <ul> <li>sical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following:</li> </ul> |
|   | pain<br>watering<br>redness  |
| Inhalation  | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths                          |

| Skin contact                   | :   | Adverse symptoms may include the following:<br>pain or irritation   |
|--------------------------------|-----|---|
|                                |     | redness   |
|                                |     | dryness   |
|                                |     | cracking  |
|                                |     | blistering may occur  |
|                                |     | reduced fetal weight<br>increase in fetal deaths  |
|                                |     | skeletal malformations  |
| Ingestion                      | :   | Adverse symptoms may include the following:   |
|                                |     | stomach pains   |
|                                |     | reduced fetal weight  |
|                                |     | increase in fetal deaths<br>skeletal malformations  |
|                                |     | Skeletal mailonnations  |
| Delayed and immediate effe     | cts | and also chronic effects from short and long term exposure  |
| Short term exposure            |     |   |
| Potential immediate<br>effects | :   | Not available.  |
| Potential delayed effects      |     | Not available.  |
| Long term exposure             | 1   |   |
| Potential immediate            |     | Not available.  |
| effects                        | 1   |   |
| Potential delayed effects      | :   | Not available.  |
| Potential chronic health eff   | ect | <u>s</u>  |
| General                        | :   | May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| Carcinogenicity                | :   | No known significant effects or critical hazards.   |
| Mutagenicity                   | :   | No known significant effects or critical hazards.   |
| Reproductive toxicity          | :   | May damage fertility or the unborn child.   |
| -                              |     |   |

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value     |
|------------------------------|---------------|
| Øral                         | 439.38 mg/kg  |
| Dermal                       | 3321.96 mg/kg |
| Inhalation (vapors)          | 30.07 mg/l    |
| Inhalation (dusts and mists) | 0.33 mg/l     |

#### Other information

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|-----------|--------------|-------------|

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

# Section 12. Ecological information

| Т | oxi | c | ity |
|---|-----|---|-----|
|   |     |   |     |

| Product/ingredient name   | Result                                 | Species                      | Exposure |
|---|--|------------------------------|----------|
| ethylbenzene  | Acute EC50 1.8 mg/l Fresh water        | Daphnia                      | 48 hours |
|   | Chronic NOEC 1 mg/l Fresh water        | Daphnia - Ceriodaphnia dubia | -        |
| 1-methoxy-2-propanol  | Acute LC50 23300 mg/l                  | Daphnia                      | 48 hours |
|   | Acute LC50 >4500 mg/l Fresh water      | Fish                         | 96 hours |
| pyrithione zinc   | Acute EC50 5.513 µg/l Marine water     | Algae - Nitzschia pungens    | 96 hours |
|   | Acute LC50 0.0082 mg/l                 | Daphnia                      | 48 hours |
|   | Chronic NOEC 1.889 µg/l Marine water   | Algae - Nitzschia pungens    | 96 hours |
|   | Chronic NOEC 0.0027 mg/l               | Daphnia                      | 21 days  |
| 1H-Pyrrole-3-carbonitrile,  | Acute EC50 0.012 mg/l                  | Algae                        | 72 hours |
| 4-bromo-2-(4-chlorophenyl)  |  |                              |          |
| -5-(trifluoromethyl)-   |  |                              |          |
|   | Acute LC50 0.0015 mg/l                 | Daphnia                      | 48 hours |
|   | Acute LC50 0.0013 mg/l                 | Fish                         | 96 hours |
|   | Acute NOEC 0.00073 mg/l                | Algae                        | 72 hours |
|   | Chronic NOEC 0.0002 mg/l               | Daphnia                      | 21 days  |
|   | Chronic NOEC 0.00017 mg/l              | Fish                         | 33 days  |
| Reaction products of<br>12-hydroxyoctadecanoic<br>acid and octadecanoic acid<br>and<br>1,3-phenylenedimethanamine | Acute LC50 >100 mg/l                   | Fish                         | 96 hours |
| Conclusion/Summary  | : There are no data available on the m | ixture itself.               | ł        |

#### Persistence/degradability

| Product/ingredient name                   | Test        | Result                      |                    | Dose      | Inoculum                          |
|---|-------------|-----------------------------|--------------------|-----------|-----------------------------------|
| ethylbenzene<br>pyrithione zinc           | -           | 79 % - Read<br>39 % - 28 da |                    | -         | -                                 |
| Conclusion/Summary                        | : There are | e no data available         | on the mixture it  | self.     |                                   |
| Product/ingredient name                   | Aquatic hal | f-life                      | Photoly            | sis       | Biodegradability                  |
| ethylbenzene<br>xylene<br>pyrithione zinc | -<br>-<br>- |                             | -<br>-<br>50%; < 2 | 28 day(s) | Readily<br>Readily<br>Not readily |

#### **Bioaccumulative potential**

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# Section 12. Ecological information

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| ethylbenzene            | 3.6    | 79.43       | Low       |
| xylene                  | 3.12   | 7.4 to 18.5 | Low       |
| 1-methoxy-2-propanol    | <1     | -           | Low       |
| pyrithione zinc         | 0.9    | 0.9         | Low       |

#### Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

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

# Section 14. Transport information

|                               | UN   | IMDG                               | ΙΑΤΑ   |
|-------------------------------|--|------------------------------------|--|
| UN number                     | UN1992   | UN1992                             | UN1992   |
| UN proper<br>shipping name    | FLAMMABLE LIQUID, TOXIC,<br>N.O.S.                                       | FLAMMABLE LIQUID, TOXIC,<br>N.O.S. | FLAMMABLE LIQUID, TOXIC,<br>N.O.S.                                       |
|                               | (ethylbenzene, pyrithione zinc)  | (ethylbenzene, pyrithione zinc)    | (ethylbenzene, pyrithione zinc)  |
| Transport hazard<br>class(es) | 3 (6.1)  | 3 (6.1)                            | 3 (6.1)  |
| Packing group                 | III  | III                                | III  |
| Environmental<br>hazards      | Yes. The environmentally<br>hazardous substance mark is<br>not required. | Yes.                               | Yes. The environmentally<br>hazardous substance mark is<br>not required. |
| Marine pollutant substances   | Not applicable.  | (pyrithione zinc)                  | Not applicable.  |

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|-----------|--------------|-------------|

### Section 14. Transport information

#### **Additional information**

| UN   | : None identified.   |
|------|--|
| IMDG | : The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.        |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

**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.

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

#### Singapore - hazardous chemicals under government control

None.

#### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 16. Other information

| <u>History</u>                 |  |
|--------------------------------|--|
| Date of issue/Date of revision | : 15 April 2024  |
| Date of previous issue         | : 12/21/2023   |
| Version                        | : 1.01   |
| Prepared by                    | : EHS  |
| Key to abbreviations           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = International |

#### Indicates information that has changed from previously issued version.

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|------------------------|-------------|
|------------------------|-------------|

# Section 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.