SAFETY DATA SHEET



Date of issue/Date of revision 1 March 2022 Version 11

| Section 1. Identification | | |
|--|---|--|
| Product code | : 00315788 | |
| Product name | : SIGMA NEXEON 750 LIGHT GREY | |
| Product type | : Liquid. | |
| Relevant identified uses o | f the substance or mixture and uses advised against | |
| Product use | : Antifouling products Professional applications, Used by spraying. | |
| Supplier's details | : PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737 | |
| Emergency telephone number (with hours of operation) | : CHEMTREC +(65)-31581349 (CCN 17704) | |

Section 2. Hazards identification

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

GHS label elements, including precautionary statements

Hazard pictograms : Signal word : Danger

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Section 2. Hazards identification

| Hazard statements | : | Fammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) Very toxic to aquatic life with long lasting effects. |
|----------------------------|---|---|
| Precautionary statements | | |
| Prevention | : | Debtain special instructions before use. 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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. |
| Response | : | Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 doctor. |
| Storage | 1 | Store in a well-ventilated place. Keep cool. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not | : | Prolonged or repeated contact may dry skin and cause irritation. |

result in classification

Section 3. Composition/information on ingredients

| Substance/mixture | 1 | Mixture |
|-------------------|---|---------|
|-------------------|---|---------|

CAS number/other identifiers

| CAS number EC number | Not applicable.Mixture. | | |
|--|--|------------|-------------|
| Ingredient name | | % | CAS number |
| x ylene | | 10 - <20 | 1330-20-7 |
| ethylbenzene | | 5 - <10 | 100-41-4 |
| 1-methoxy-2-propanol | | 5 - <10 | 107-98-2 |
| pyrithione zinc | | 5 - <10 | 13463-41-7 |
| 1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)- | | 3 - <5 | 122454-29-9 |
| Solvent naphtha (petroleum), light aromatic | | 1 - <3 | 64742-95-6 |
| Octadecanamide, N,N'-1,6-hex | | 1 - <3 | 55349-01-4 |
| methanol | | 0.1 - <0.3 | 67-56-1 |

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Section 3. Composition/information on ingredients

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 | a |
|---|-------|
| Eve contact | a |
| Eye contact : Check for and remove any contact lenses. Immediately flush eyes with runnir water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. | 9 |
| In case of accidental eye contact, avoid direct exposure to the sun or other so of UV light as severe irritation including burns may result. These reactions ca delayed – get medical attention if pain, irritation or blistering occurs after cont | n be |
| Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breath irregular or if respiratory arrest occurs, provide artificial respiration or oxygen trained personnel. | |
| Skin contact Remove contaminated clothing and shoes. Wash skin thoroughly with soap a 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 may result. These reactions can be delayed – get medical attention if pain, ir rash or blistering occurs after contact. | burns |
| Ingestion : If swallowed, seek medical advice immediately and show this container or lab Keep person warm and at rest. Do NOT induce vomiting. | el. |

Most important symptoms/effects, acute and delayed

| Potential acute health effects | <u>b</u> |
|--------------------------------|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Fatal if inhaled. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |
| Over-exposure signs/sympto | o <u>ms</u> |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

Section 4. First aid measures

| Skin contact | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations |
|-------------------------|---|
| Ingestion | : Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations |
| Indication of immediate | medical attention and special treatment needed, if necessary |
| 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

| Extinguishing media | |
|--|--|
| Suitable extinguishing media | : Use dry chemical, CO_2 , 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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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 oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides |

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Section 5. Fire-fighting measures

| 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 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, protect | iv | e equipment and emergency procedures |
|--------------------------------|----|--|
| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |

Methods and materials for containment 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 | : Fut 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. 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. |
|--|---|
| 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, including any 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 |
|-----------------|---|
| X ylene | Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 651 mg/m ³ 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 434 mg/m ³ 8 hours. PEL (long term): 100 ppm 8 hours. |
| ethylbenzene | Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 543 mg/m ³ 15 minutes. PEL (short term): 125 ppm 15 minutes. PEL (long term): 434 mg/m ³ 8 hours. PEL (long term): 100 ppm 8 hours. |

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Section 8. Exposure controls/personal protection

| 1-methoxy-2-propanol | Workplace Safety and Health Act (Singapore, 2/2006). |
|-------------------------------------|---|
| | PEL (short term): 553 mg/m ³ 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 369 mg/m ³ 8 hours. PEL (long term): 100 ppm 8 hours. |
| methanol | Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 328 mg/m ³ 15 minutes. PEL (short term): 250 ppm 15 minutes. PEL (long term): 262 mg/m ³ 8 hours. |
| | PEL (long term): 200 ppm 8 hours. |
| Recommended monitoring procedures | : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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. |
| Appropriate engineering 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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measure | <u>S</u> |
| 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. |
| 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 indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| | |

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Section 8. Exposure controls/personal protection

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|--|
| : 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| 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. |
| : 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 is necessary. |
| |

Section 9. Physical and chemical properties

| <u>Appearance</u> | |
|---------------------------|--|
| Physical state | : Liquid. |
| Color | : Gray. |
| Odor | : Aromatic. |
| рН | insoluble in water. |
| Boiling point | : >37.78°C (>100°F) |
| Flash point | : Closed cup: 27°C (80.6°F) |
| Evaporation rate | : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.81compared with butyl acetate |
| Flammability (solid, gas) | : liquid |
| Vapor pressure | Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 1.01 kPa (7.58 mm Hg) (at 20°C) |
| Vapor density | : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.54 (Air = 1) |
| Relative density | : 1.4 |
| Solubility | : Insoluble in the following materials: cold water. |
| Auto-ignition temperature | : Lowest known value: 270°C (518°F) (1-methoxy-2-propanol). |
| Viscosity | : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) |

Section 10. Stability and reactivity

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|------------------------------------|---|------------|
| Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposit products. | ion |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not | occur. |
| Chemical stability | : The product is stable. | |
| Reactivity | : No specific test data related to reactivity available for this product or its ing | redients. |

Section 10. Stability and reactivity

| Incompatible materials | : | Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
|----------------------------------|---|---|
| Hazardous decomposition products | : | Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|---------|----------------|----------|
| x ylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| 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 | - |
| 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, 4-bromo-2-(4-chlorophenyl) -5-(trifluoromethyl)- | LC50 Inhalation Dusts and mists | Rat | <0.25 mg/l | 4 hours |
| | LD50 Dermal | Rat | 520 to 750 mg/ | - |
| | | | kg | |
| | LD50 Oral | Rat | 28.7 mg/kg | - |
| Solvent naphtha (petroleum), light aromatic | LD50 Dermal | Rabbit | 3.48 g/kg | - |
| - | LD50 Oral | Rat | 8400 mg/kg | - |
| methanol | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |

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 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 | e on the mixtur | e itself. | | |

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Section 11. Toxicological information

Sensitization

| Conclusion/Summary | |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Mutagenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Carcinogenicity | |
| Conclusion/Summary | : There are no data available on the mixture 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 tox | icity (single exposure) |

Name Category **Route of** Target organs exposure Category 3 **x**ylene Respiratory tract irritation 1-methoxy-2-propanol Category 3 Narcotic effects Category 3 Solvent naphtha (petroleum), light aromatic Narcotic effects _ methanol Category 1 _

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on the likely : Not available.

routes of exposure

| <u>^</u> | | |
|----------|--|--|
| - | | |
| - | | |
| | | |
| | | |

| Potential acute heal | <u>h effects</u> |
|----------------------|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Fatal if inhaled. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |

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| | | |

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | in tering dness | ay include the following: |
|--------------------------------|--|--|
| Inhalation | verse symptoms m duced fetal weight crease in fetal death eletal malformations | |
| Skin contact | verse symptoms m in or irritation dness vness acking stering may occur duced fetal weight crease in fetal death eletal malformations | |
| Ingestion | verse symptoms m omach pains duced fetal weight crease in fetal death eletal malformations | |
| | d also chronic effe | ects from short and long term exposure |
| <u>Short term exposure</u> | | |
| Potential immediate effects | t available. | |
| Potential delayed effects | t available. | |
| Long term exposure | | |
| Potential immediate effects | t available. | |

| Potential delayed effects | 1 | Not available. |
|---------------------------|---|----------------|
|---------------------------|---|----------------|

Potential chronic health effects

| 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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|-----------------------|---|
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : May damage fertility or the unborn child. |

Numerical measures of toxicity

Acute toxicity estimates

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Section 11. Toxicological information

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| Route | ATE value |
|-------------------------------|---|
| Dermal Inhalation (vapors) | 428.49 mg/kg 3286.73 mg/kg 34.57 mg/l 0.4 mg/l |

Other information

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

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|--|------------------------------|----------|
| e thylbenzene | 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 |
| Solvent naphtha (petroleum), light aromatic | Acute LC50 8.2 mg/l | Fish | 96 hours |
| methanol | Acute LC50 13 mg/l Fresh water | Fish | 96 hours |
| Conclusion/Summary | : There are no data available on the m | ixture itself. | |

Persistence/degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---------------------------------|------|--|------|----------|
| ethylbenzene pyrithione zinc | | 79 % - Readily - 10 days 39 % - 28 days | - | - |

Conclusion/Summary

: There are no data available on the mixture itself.

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

Section 12. Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------------|-----------------------------------|
| Kylene ethylbenzene pyrithiona zine | - | - | Readily Readily Not readily |
| pyrithione zinc | - | 50%; < 28 day(s) | Not readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| x ylene | 3.12 | 7.4 to 18.5 | low |
| ethylbenzene | 3.6 | 79.43 | low |
| 1-methoxy-2-propanol | <1 | - | low |
| pyrithione zinc | 0.9 | 0.9 | low |
| methanol | -0.77 | - | 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 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a 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 | VN1992 | VN1992 |
| UN proper shipping name | N.O.S. | FLAMMABLE LIQUID, TOXIC, N.O.S. | N.O.S. |
| | (xylene, pyrithione zinc) | (xylene, pyrithione zinc) | 🕅 (Xylene, pyrithione zinc) |
| Transport hazard class(es) | 3 (6.1) | 3 (6.1) | 3 (6.1) |

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

Section 14. Transport information

| Packing group | III | III | III |
|--------------------------------|--|---|--|
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (pyrithione zinc, 1H-Pyrrole- 3-carbonitrile, 4-bromo-2- (4-chlorophenyl)-5- (trifluoromethyl)-) | Not applicable. |

| 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 | : 1 March 2022 |
| Date of previous issue | : 6/29/2021 |
| Version | : 11 |
| Prepared by | : EHS |

| Singap | ore English (| US) | | Page: 14/15 |
|--------|---------------|-----|--|-------------|
|--------|---------------|-----|--|-------------|

Section 16. Other information

| Key to abbreviations | : ATE = Acute Toxicity Estimate |
|----------------------|---|
| Rey to appreviations | |
| | BCF = Bioconcentration Factor |
| | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
| | IATA = International Air Transport Association |
| | IBC = Intermediate Bulk Container |
| | IMDG = International Maritime Dangerous Goods |
| | LogPow = logarithm of the octanol/water partition coefficient |
| | MARPOL = International Convention for the Prevention of Pollution From Ships, |
| | 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| | UN = United Nations |
| | UN = United Nations |

Indicates information that has changed from previously issued version.

Notice to reader

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.