

SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 5 November 2025

Version 2.08

Section 1. Chemical product and company identification

Product code : 000001180555
Product name : SIGMAZINC 109 ME BASE GREY
Product name : SIGMAZINC 109 ME BASE GREY
Other means of identification : 00419507
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.
Use of the substance/ mixture : Coating.
Uses advised against : Not applicable.

Supplier's details : PPG Coatings (Kunshan) Co., Ltd
53 Jinyang Road, Lujia Town,
215331 Kunshan City, Jiangsu Province, P.R. China
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Section 2. Hazards identification

Classification of the substance or mixture according to GB 30000.1-2024 and GB 30000-2013

Emergency overview

Liquid.
Grey.
Aromatic. [Slight]
Flammable liquid and vapour.
May be harmful if swallowed or in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

See Section 12 for environmental precautions.

Section 2. Hazards identification

Classification of the substance or mixture

- : FLAMMABLE LIQUIDS - Category 3
- ACUTE TOXICITY (oral) - Category 5
- ACUTE TOXICITY (dermal) - Category 5
- SKIN CORROSION/IRRITATION - Category 3
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
- SKIN SENSITISATION - Category 1
- CARCINOGENICITY - Category 2
- SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
- LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
- Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 82.2%
- Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 82.2%
- Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 6.1%

GHS label elements

Hazard pictograms

- :
- 
- 
- 
- 

Signal word

Hazard statements

- : Warning
- : Flammable liquid and vapour.
May be harmful if swallowed or in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face 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. Ground and bond container and receiving equipment. Keep container tightly closed. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

- : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. 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. If eye irritation persists: Get medical advice or attention.

Suitable extinguishing media

- : Use dry chemical, CO₂, water spray (fog) or foam.

Storage

- : Store locked up. Store in a well-ventilated place. Keep cool.

Section 2. Hazards identification

| | |
|--|---|
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Physical and chemical hazards | : Flammable liquid and vapour. |
| Health hazards | : May be harmful if swallowed or in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Prolonged or repeated contact may dry skin and cause irritation. |
| <u>Symptoms related to the physical, chemical and toxicological characteristics</u> | |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : No specific data. |

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

Short term exposure

| | |
|------------------------------------|------------------|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |

Long term exposure

| | |
|------------------------------------|------------------|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |

| | |
|------------------------------|---|
| Environmental hazards | : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. |
|------------------------------|---|

| | |
|--|--|
| 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 |
| Other means of identification | : 00419507 |

CAS number/other identifiers

| | |
|-------------------|-------------------|
| CAS number | : Not applicable. |
|-------------------|-------------------|

Section 3. Composition/information on ingredients

| Ingredient name | % | CAS number |
|----------------------------|----------|------------|
| zinc dust | 70 - 100 | 7440-66-6 |
| xylene isomers mixture | 1 - <10 | 1330-20-7 |
| Epoxy Resin (700<MW<=1100) | 1 - <10 | 25036-25-3 |
| benzyl alcohol | 1 - <10 | 100-51-6 |
| 1-methoxy-2-propanol | 1 - <10 | 107-98-2 |
| ethylbenzene | 1 - <10 | 100-41-4 |
| zinc oxide | 0.1 - <1 | 1314-13-2 |
| lead powder | <0.1 | 7439-92-1 |

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 : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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 recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. 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 irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : May be harmful in contact with skin. Causes mild skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion : No specific data.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapour. 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
metal oxide/oxides
oxides of lead

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, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised 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".

Section 6. Accidental release measures

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.

Methods and material 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling : 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.

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 oxidising 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 unlabelled 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 |
|----------------------|---|
| xylene | GBZ 2.1 (China, 7/2024) [Xylene] PC-TWA 8 hours: 50 mg/m ³ . PC-STEL 15 minutes: 100 mg/m ³ . ACGIH TLV (United States, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m ³ . |
| 1-methoxy-2-propanol | |
| ethylbenzene | GBZ 2.1 (China, 7/2024) PC-TWA 8 hours: 100 mg/m ³ . PC-STEL 15 minutes: 150 mg/m ³ . |
| zinc oxide | GBZ 2.1 (China, 7/2024) PC-TWA 8 hours: 3 mg/m ³ . PC-STEL 15 minutes: 5 mg/m ³ . |
| lead powder | GBZ 2.1 (China, 7/2024) PC-TWA 8 hours: 0.05 mg/m ³ (as Pb). Form: Dust. PC-TWA 8 hours: 0.03 mg/m ³ (as Pb). Form: Fume. |

Recommended monitoring 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.

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, vapour 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 measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection

Skin protection

Section 8. Exposure controls/personal 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.

Gloves : butyl rubber

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. 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.

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 is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Grey.

Odour : Aromatic. [Slight]

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 26°C (78.8°F)

Lower and upper explosive (flammable) limits : Not available.

Relative density : 3.42

| Media | Result |
|------------|-------------|
| cold water | Not soluble |

Viscosity :

Dynamic (room temperature): Not available.

Kinematic (room temperature): >400 mm²/s

Kinematic (40°C): >21 mm²/s

Viscosity : 60 - 100 s (ISO 6mm)

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: oxidising agents, strong alkalis, strong acids. |
| Hazardous decomposition products | : Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Dose |
|----------------------------|---|-----------------------------------|
| zinc dust | Rat - Oral - LD50 | >2000 mg/kg |
| - | Rat - Inhalation - LC50 Dusts and mists | >5.4 mg/l [4 hours] |
| xylene isomers mixture | Rat - Oral - LD50 | 4.3 g/kg |
| - | Rabbit - Dermal - LD50 | 1.7 g/kg |
| Epoxy Resin (700<MW<=1100) | Rat - Oral - LD50 | >2000 mg/kg |
| - | Rat - Dermal - LD50 | >2000 mg/kg |
| benzyl alcohol | Rabbit - Dermal - LD50 | >2000 mg/kg |
| - | Rat - Oral - LD50 | 1200 mg/kg |
| - | Rat - Inhalation - LC50 Dusts and mists | >5 mg/l [4 hours] |
| 1-methoxy-2-propanol | Rabbit - Dermal - LD50 | 13 g/kg |
| - | Rat - Oral - LD50 | 5.2 g/kg |
| - | Rat - Inhalation - LC50 Vapour | >7000 ppm [6 hours] |
| ethylbenzene | Rat - Oral - LD50 | 3.5 g/kg |
| - | Rabbit - Dermal - LD50 | 17.8 g/kg |
| - | Rat - Inhalation - LC50 Vapour | 17.8 mg/l [4 hours] |
| zinc oxide | Rat - Oral - LD50 | >5000 mg/kg |
| - | Rat - Dermal - LD50 | >2000 mg/kg |
| - | Rat - Inhalation - LC50 Dusts and mists | >5700 mg/m ³ [4 hours] |

Product Conclusion : There are no data available on the mixture itself.

Skin corrosion/irritation

| Product/ingredient name | Species | Dose | Score |
|-------------------------|-----------------------------------|--|-------|
| xylene isomers mixture | Rabbit - Skin - Moderate irritant | Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours | - |

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

Section 11. Toxicological information

Serious eye damage/eye irritation

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

Respiratory corrosion/irritation

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

Sensitisation

Skin

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

Respiratory

Conclusion/Summary : 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.

Classification

| Product/ingredient name | IARC |
|-------------------------|------|
| xylene isomers mixture | 3 |
| ethylbenzene | 2B |
| lead powder | 2B |

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|-------------------------|--|
| 1-methoxy-2-propanol | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Result |
|-------------------------|---|
| ethylbenzene | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| benzyl alcohol | ASPIRATION HAZARD - Category 2 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : May be harmful in contact with skin. Causes mild skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion : No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

General : 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 : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| SIGMAZINC 109 ME BASE GREY | 3403.0 | 2923.9 | N/A | 159.4 | 20.4 |
| xylene isomers mixture | 4300 | 1700 | N/A | 11 | 1.5 |
| Epoxy Resin (700<MW<=1100) | 2500 | 2500 | N/A | N/A | N/A |
| benzyl alcohol | 1200 | 2500 | N/A | N/A | N/A |
| 1-methoxy-2-propanol | 5200 | 13000 | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 1.5 |
| zinc oxide | N/A | 2500 | N/A | N/A | N/A |

Other information :

Section 11. Toxicological 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 vapour/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 | Dose / Exposure |
|-------------------------|------------------------------|--|-----------------------|
| zinc dust | Acute - EC50 - Fresh water | Algae - <i>Pseudokirchneriella subcapitata</i> | 0.106 mg/l [72 hours] |
| | Chronic - EC10 | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 6.3 µg/l [21 days] |
| | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 354 µg/l [48 hours] |
| | Chronic - LC10 - Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling) | 185 µg/l [30 days] |
| | Chronic - EC10 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 27.3 µg/l [72 hours] |
| | | Fish - Goldfish | >4500 mg/l [96 hours] |
| 1-methoxypropan-2-ol | Acute - LC50 - Fresh water | Daphnia - Daphnia | 23300 mg/l [48 hours] |
| ethylbenzene | Acute - LC50 | Daphnia | 1.8 mg/l [48 hours] |
| zinc oxide | Acute - EC50 - Fresh water | Daphnia - <i>Ceriodaphnia dubia</i> | 1 mg/l |
| | Acute - EC50 | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 0.481 mg/l [48 hours] |
| | Chronic - NOEC - Fresh water | Algae | 0.17 mg/l [72 hours] |
| lead | Acute - EC50 - Fresh water | Algae | 0.017 mg/l [72 hours] |
| | Acute - LC50 - Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> | 0.594 mg/l [48 hours] |
| | Acute - EC50 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 20.5 µg/l [72 hours] |
| | Chronic - EC10 - Fresh water | Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase | 3.9 µg/l [72 hours] |

Conclusion/Summary

: Not available.

Persistence/degradability

| Product/ingredient name | Test | Result | Dose / Inoculum |
|-------------------------|------|-------------------------|-----------------|
| ethylbenzene | - | 79% [10 days] - Readily | |

Conclusion/Summary

: Not available.

Section 12. Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene isomers mixture | - | - | Readily |
| benzyl alcohol | - | - | Readily |
| ethylbenzene | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylene isomers mixture | 3.12 | 7.4 to 18.5 | Low |
| benzyl alcohol | 0.87 | - | Low |
| 1-methoxy-2-propanol | <1 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |

Mobility in soil

Soil/water partition coefficient : Not available.

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

Section 13. Disposal considerations

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. 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | China | UN | IMDG | IATA |
|-----------------------------------|--------|--------|--------|--------|
| UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT | Paint |
| Transport hazard class(es) | 3 | 3 | 3 | 3 |
| Packing group | III | III | III | III |
| | | | | |

Section 14. Transport information

| | | | | |
|------------------------------------|--|--|--|--|
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (Zinc powder - zinc dust (stabilized)) | Not applicable. |

Additional information

CN : None identified.

UN : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.

IMDG : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

IATA : 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 to IMO instruments : Not applicable.

Section 15. Regulatory information

China inventory (IECSC) : All components are listed or exempted.

References : Production Safety Law of the People's Republic of China
Code of Occupational Disease Prevention of the People's Republic of China
Environmental Protection Law of the People's Republic of China
Fire Control Law of the People's Republic of China
Regulations on the Control over Safety of Dangerous Chemicals
Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1)
Specification for classification and labelling of chemicals according to Part 1: General rules (GB 30000.1-2024)
Safety data sheet for chemical products - Content and order of sections (GB/T 16483)
Guidance on the compilation of safety data sheet for chemical products (GB/T 17519)
General rule for preparation of precautionary label for chemicals (GB15258)
Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

History

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| Key to abbreviations | : | ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail 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.