SAFETY DATA SHEET

AMERCOAT 229T NEUTRAL TINT RESIN



Date of issue 20 December 2023

Version 19

1. Product and company identification

Product name : AMERCOAT 229T NEUTRAL TINT RESIN

Product code : 00334038 Product type : Liquid.

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

Product use : Industrial applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

Emergency telephone

number

: 078 574 2777

2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 3

EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 1B

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 2

GHS label elements

Hazard pictograms









Signal word : Danger

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2. Hazards identification

Hazard statements

: Flammable liquid and vapor.

May cause an allergic skin reaction.

Causes serious eve irritation. May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause genetic defects. Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to organs. (central nervous system (CNS))

May cause damage to organs through prolonged or repeated exposure. (central

nervous system (CNS), hearing organs) 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 only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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: 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. If eye irritation persists: Get medical advice or attention.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable. **CSCL** number Not available.

| Ingredient name | % | CAS number | CSCL |
|--------------------------------------------------|-------------|------------|----------------|
| Methyl n-pentyl ketone | 12.5 - <15 | 110-43-0 | 2-542 |
| Propylene glycol monomethyl ether acetate | 10 - <12.5 | 108-65-6 | 2-3144 |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | 5 - <7 | 15625-89-5 | 2-1010; 2-958 |
| 1-Butanol | 3 - <5 | 71-36-3 | 2-3049 |
| Dipropylene glycol methyl ether | 1 - <2 | 34590-94-8 | 2-426; 7-97 |
| Butyl acetate | 1 - <2 | 123-86-4 | 2-731 |
| Hydroquinone | 1 - <2 | 123-31-9 | 3-543 |
| Xylene | 0.2 - < 0.5 | 1330-20-7 | 3-3; 3-60 |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | 0.2 - < 0.5 | 85711-46-2 | Not available. |
| Ethylbenzene | 0.1 - <0.2 | 100-41-4 | 3-28; 3-60 |

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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.

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.

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.

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

Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact: May cause damage to organs following a single exposure in contact with skin.

Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion : May cause damage to organs following a single exposure if swallowed. Can cause

central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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4. First aid measures

Skin contact

: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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. 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)

5. Fire-fighting 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 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 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

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.

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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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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 noncombustible, 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.

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. 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.

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7. Handling and storage

Conditions for safe storage: Do not store above the following temperature: 50°C (122°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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I ∕-Butanol | Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-C: 150 mg/m³ OEL-C: 50 ppm Industrial Safety and Health Act (Japan, 6/2020). TWA: 25 ppm 8 hours. |
| Butyl acetate | Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 475 mg/m³ 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 150 ppm 8 hours. |
| Hydroquinone | Japan Society for Occupational Health (Japan, 9/2022). Skin sensitizer. |
| Xylene | Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m³ 8 hours. |
| Ethylbenzene | Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 87 mg/m³ 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. |

procedures

Recommended monitoring: 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.

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8. Exposure controls/personal protection

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

: Chemical splash goggles and face shield.

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

: polyethylene 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.

9. Physical and chemical properties

Appearance

Physical state : Liquid.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 42.22°C (108°F)

Evaporation rate : 0.4 (butyl acetate = 1)

Vapor pressure : 0.45 kPa (3.4 mm Hg)

Relative density : 1.15

Solubility(ies) : Media Result

cold water Not soluble

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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

: Depending on conditions, decomposition products may include the following

materials: carbon oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|-----------------------|---------|-------------------------|----------|
| Methyl n-pentyl ketone | LC50 Inhalation Vapor | Rat | 16.7 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 10.206 g/kg | - |
| | LD50 Oral | Rat | 1.6 g/kg | - |
| Propylene glycol | LC50 Inhalation Vapor | Rat | 30 mg/l | 4 hours |
| monomethyl ether acetate | | | | |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 6190 mg/kg | - |
| 2,2-bis(acryloyloxymethyl) | LD50 Dermal | Rabbit | 5170 mg/kg | - |
| butyl acrylate | | | | |
| | LD50 Oral | Rat | 5.19 g/kg | - |
| 1-Butanol | LC50 Inhalation Vapor | Rat | 24000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| Dipropylene glycol methyl ether | LC50 Inhalation Vapor | Rat | 500 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 9.5 g/kg | - |
| | LD50 Oral | Rat | 5.23 g/kg | - |
| Butyl acetate | LC50 Inhalation Vapor | Rat | >21.1 mg/l | 4 hours |
| | LC50 Inhalation Vapor | Rat | 2000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10.768 g/kg | - |
| Hydroquinone | LD50 Oral | Rat | 302 mg/kg | - |
| Xylene | 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 | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------------------|--------------------------|---------|-------|--------------------|-------------|
| 2,2-bis(acryloyloxymethyl) butyl acrylate | Skin - Irritant | Rabbit | - | - | - |
| Xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

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11. Toxicological information

Sensitization

| 3 | Route of exposure | Species | Result |
|-------------------------------------------|-------------------|---------|-------------|
| 2,2-bis(acryloyloxymethyl) butyl acrylate | skin | Rabbit | Sensitizing |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|--------------------------------------------------|------------|-------------------|---------------------------------------------------------------------------|
| Methyl n-pentyl ketone | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Propylene glycol monomethyl ether acetate | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | Category 3 | - | Narcotic effects |
| 1-Butanol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Dipropylene glycol methyl ether | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Butyl acetate | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Hydroquinone | Category 1 | - | central nervous system (CNS) |
| Xylene | Category 1 | - | central nervous system (CNS), kidneys, liver, respiratory organs |
| | Category 3 | | Narcotic effects |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Category 3 | - | Respiratory tract |
| Ethylbenzene | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

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11. Toxicological information

| Name | Category | Route of exposure | Target organs |
|--------------|------------|-------------------|----------------------------------------------------|
| 1-Butanol | Category 1 | - | central nervous system (CNS), hearing organs |
| Hydroquinone | Category 2 | - | kidneys, liver |
| Xylene | Category 1 | - | nervous system, respiratory organs |
| Ethylbenzene | Category 1 | - | hearing organs, nervous system |

Aspiration hazard

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

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact

: May cause damage to organs following a single exposure in contact with skin.

Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion

: May cause damage to organs following a single exposure if swallowed. Can cause

central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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11. Toxicological information

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : 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 : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: May cause genetic defects.

Reproductive toxicity: May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------------------------|------------------|-------------------|--------------------------------|----------------------------------|----------------------------------------------|
| MERCOAT 229T NEUTRAL TINT RESIN | 6377.9 | N/A | N/A | 78.6 | N/A |
| Methyl n-pentyl ketone | 1600 | 10206 | N/A | 16.7 | N/A |
| Propylene glycol monomethyl ether acetate | 6190 | N/A | N/A | 30 | N/A |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | 5190 | 5170 | N/A | N/A | N/A |
| 1-Butanol | N/A | 3400 | N/A | 24 | N/A |
| Dipropylene glycol methyl ether | 5230 | 9500 | N/A | N/A | N/A |
| Butyl acetate | 10768 | N/A | N/A | N/A | N/A |
| Hydroquinone | 302 | N/A | N/A | N/A | N/A |
| Xylene | 4300 | 1700 | N/A | 11 | N/A |
| Ethylbenzene | 3500 | 17800 | N/A | 17.8 | N/A |

Other information

Prolonged or repeated contact may dry skin and cause irritation. 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. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. 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. Avoid contact with skin and clothing.

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12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------------------|---------------------------------|------------------------------|----------|
| Methyl n-pentyl ketone | Acute LC50 131 mg/l | Fish | 96 hours |
| Propylene glycol monomethyl ether acetate | Acute LC50 134 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | Acute LC50 0.87 mg/l | Fish | 96 hours |
| 1-Butanol | Acute LC50 1376 mg/l | Fish | 96 hours |
| Dipropylene glycol methyl ether | Acute EC50 1919 mg/l | Daphnia | 48 hours |
| Butyl acetate | Acute LC50 18 mg/l | Fish | 96 hours |
| Ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| - | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |

Persistence/degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------------------------|-----------------------|--------------------------|------|----------|
| Methyl n-pentyl ketone | OECD 310 | 69 % - Readily - 28 days | - | - |
| Propylene glycol monomethyl ether acetate | - | 83 % - Readily - 28 days | - | - |
| Butyl acetate | TEPA and OECD 301D | 83 % - Readily - 28 days | - | - |
| Ethylbenzene | - | 79 % - Readily - 10 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--------------------------|-------------------|------------|------------------|
| Methyl n-pentyl ketone | - | - | Readily |
| Propylene glycol | - | - | Readily |
| monomethyl ether acetate | | | |
| Butyl acetate | - | - | Readily |
| Xylene | - | - | Readily |
| Ethylbenzene | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------------------------|--------|-------------|-----------|
| Methyl n-pentyl ketone | 2.26 | - | Low |
| Propylene glycol monomethyl ether acetate | 1.2 | - | Low |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | 0.67 | - | Low |
| 1-Butanol | 1 | - | Low |
| Dipropylene glycol methyl ether | 0.004 | - | Low |
| Butyl acetate | 2.3 | - | Low |
| Hydroquinone | 0.59 | - | Low |
| Xylene | 3.12 | 7.4 to 18.5 | Low |
| Ethylbenzene | 3.6 | 79.43 | Low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

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

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12. Ecological information

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 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. 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.

14. Transport information

| | UN | IMDG | IATA |
|-----------------------------|--------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class(es) | 3 | 3 | 3 |
| 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. | (2,2-bis(acryloyloxymethyl) butyl acrylate) | Not applicable. |

Additional information

UN : None identified.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

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 : Not applicable.

to IMO instruments

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15. Regulatory information

Fire Service Law

| Category | Substance name/Type | Danger category | Signal word | Designated quantity |
|-------------|---------------------|-----------------|----------------------------|---------------------|
| Category IV | Class II petroleums | III | Flammable - Keep Fire Away | 1000 L |

Pollutant Release and Transfer Registers (PRTR)

| Ingredient name | % | Status | Reference number |
|-----------------|-----|---------|------------------|
| Hydroquinone | 1.1 | Class 1 | 336 |

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Substance(s) requiring labelling

| Ingredient name | % | Status | Reference number |
|-----------------------------------------------|-----------|--------|--------------------|
| Methyl n-pentyl ketone | ≥10 - ≤20 | Listed | 586 |
| 1,1,1-Trimethylolpropane triacrylate(2024-04) | ≤10 | Listed | 404-2 (2024-04) |
| Butanol | ≤10 | Listed | 477 |
| 1-(2-Methoxy-2-methylethoxy)-2-propanol | ≤10 | Listed | 601 |
| Butyl acetate | ≤10 | Listed | 181 |
| Hydroquinone | ≤10 | Listed | 461 |
| Ethylbenzene | ≤10 | Listed | 70 |

Chemicals requiring notification

| Ingredient name | % | Status | Reference number |
|-----------------------------------------------|-----------|--------|--------------------|
| Methyl n-pentyl ketone | ≥10 - ≤20 | Listed | 586 |
| 1,1,1-Trimethylolpropane triacrylate(2024-04) | ≤10 | Listed | 404-2 (2024-04) |
| Butanol | ≤10 | Listed | 477 ´ |
| 1-(2-Methoxy-2-methylethoxy)-2-propanol | ≤10 | Listed | 601 |
| Butyl acetate | ≤10 | Listed | 181 |
| Hydroquinone | ≤10 | Listed | 461 |
| Xylene | ≤10 | Listed | 136 |
| Ethylbenzene | ≤10 | Listed | 70 |

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

Mutagen

| Ingredient name | % | Status | Reference |
|-----------------|-----|--------|-----------|
| | | | number |
| hydroquinone | ≤10 | Listed | 174 |

Corrosive liquid : Not listed

Occupational Safety and : Inflammable

Health Law

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15. Regulatory information

Regulations on the

Prevention of Tetraalkyl

Lead Poisoning

Harmful Substances

: Not listed

: Not listed

Subject to Obtaining

Permission for Manufacturing

Harmful Substances,

: Not listed

Prohibited for

Manufacturing

: Inflammable

ISHL Enforcement Order Appendix 1 - Dangerous

Substances

Lead regulation : Not listed **Organic solvents**

poisoning prevention

: Not applicable.

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

| Ingredient name | % | Status | Reference number |
|------------------------|-----|---------------------|------------------|
| 17-Butanol | ≤10 | Priority assessment | 124 |
| Hydroquinone | ≤10 | Priority assessment | 203 |
| Xylene | ≤10 | Priority assessment | 125 |
| Ethylbenzene | ≤10 | Priority assessment | 50 |
| Methacrylic acid | ≤10 | Priority assessment | 35 |
| Methyl isobutyl ketone | ≤10 | Priority assessment | 116 |
| Toluene | ≤10 | Priority assessment | 46 |
| Cumene | ≤10 | Priority assessment | 126 |
| Propane-1,2-diol | ≤10 | Priority assessment | 106 |
| Cyclohexane | ≤10 | Priority assessment | 96 |
| Acetaldehyde | ≤10 | Priority assessment | 26 |
| 1,4-Dioxane | ≤10 | Priority assessment | 80 |
| Formaldehyde | ≤10 | Priority assessment | 25 |
| Ethylene oxide | ≤10 | Priority assessment | 19 |
| Chloromethane | ≤10 | Priority assessment | 6 |

High Pressure Gas Control : Not available.

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available.

of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

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Product code 00334038

Date of issue 20 December 2023 Version 19

Product name AMERCOAT 229T NEUTRAL TINT RESIN

15. Regulatory information

JSOH Carcinogen : Group 2B List of Specially Controlled : Not listed

Industrial Waste

Japan inventory : At least one component is not listed.

Road law : Not available.

16. Other information

History

Date of issue/Date of

Key to abbreviations

revision

: 20 December 2023

Date of previous issue

: 8/18/2023

Version

: 19 : EHS

Prepared by

: 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.

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