SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 20 December 2023 Version 9.04

Section 1. Identification

| Product code | : 00333511 |
|---|--|
| Product name | : ABC#3 BLACK 283S5773 AF-NAVY |
| Product type | : Liquid. |
| Other means of identification Not available. | |
| Relevant identified uses of the | e substance or mixture and uses advised against |
| Product use | Coating.; Antifouling products Industrial applications, Used by spraying. |
| Uses advised against | : Product is not intended, labelled or packaged for consumer use. |
| Company/undertaking identification | : PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc. 3rd Floor First Life Center 174 Salcedo St., Legaspi Village Makati City 1229, Philippines Tel # 00632- 752-6773/ Fax # 00632-752-6771 |
| Emergency telephone number | : CHEMTREC +(63) 2-395-3308 (CCN 17704) |

Section 2. Hazards identification

| Classification of the substance or mixture | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 3.9% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 11.2% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 15.9% Fercentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.9% |
|---|--|
| GHS label elements Hazard pictograms | |



Section 2. Hazards identification

| Signal word | 1 | Danger |
|----------------------------|---|---|
| Hazard statements | : | Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | | |
| Prevention | : | 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. Avoid breathing 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. 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. 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 | Not applicable. |
| 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

: Mixture

CAS number/other identifiers

| CAS number : Not applicable. | | |
|-------------------------------------|----------|------------|
| Ingredient name | % | CAS number |
| dícopper oxide | 25 - <50 | 1317-39-1 |
| zinc oxide | 10 - <20 | 1314-13-2 |
| butan-1-ol | 5 - <10 | 71-36-3 |
| rosin | 5 - <10 | 8050-09-7 |
| xylene | 5 - <10 | 1330-20-7 |
| N-ethyl-o(or p)-toluenesulphonamide | 1 - <3 | 8047-99-2 |
| copper oxide | 1 - <3 | 1317-38-0 |
| n-butyl acetate | 1 - <3 | 123-86-4 |
| copper | 1 - <3 | 7440-50-8 |
| •• | | |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

| Description of necessary first aid measures | | | |
|---|--|--|--|
| Eye contact | Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. | | |
| Inhalation | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. | | |
| Skin contact | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. | | |
| 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 symptom Potential acute health e | ns/effects, acute and delayed Iffects |
|--|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Harmful if inhaled. |
| Skin contact | : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |
| Over-exposure signs/sy | <u>/mptoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| 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 |

| 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 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. |

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 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 co | ntainment 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 |
| | |

Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not 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 | 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. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|---|
| dícopper oxide | ACGIH TLV (United States, 1/2023). [Copper Fume] |
| | TWA: 0.2 mg/m ³ 8 hours. Form: Fume |
| zinc oxide | TLV (Philippines, 4/2016). |
| | TLV: 1 mg/m ³ 8 hours. Form: Fume |
| butan-1-ol | TLV (Philippines, 4/2016). |
| | TLV: 300 mg/m ³ 8 hours. |
| | TLV: 100 ppm 8 hours. |
| rosin | ACGIH TLV (United States, 1/2023). [resin |
| | acids as total Resin acids] Skin sensitizer |
| | Inhalation sensitizer. |
| | TWA: 0.001 mg/m³, (as total Resin acids) 8 |
| | hours. Form: Inhalable fraction |
| xylene | TLV (Philippines, 4/2016). [Xylene] |
| | TLV: 0.1 mg/m ³ 8 hours. |
| copper oxide | ACGIH TLV (United States, 1/2023). |
| | [Copper Fume] |
| | TWA: 0.2 mg/m ³ 8 hours. Form: Fume |

Section 8. Exposure controls/personal protection

| Section 8. Exposure controls/personal protection | | | |
|--|---|--|--|
| n-butyl acetate | | TLV (Philippines, 4/2016). TLV: 710 mg/m ³ 8 hours. | |
| aannar | | TLV: 150 ppm 8 hours. | |
| copper | | TLV (Philippines, 4/2016). TLV: 1 mg/m ³ 8 hours. Form: Dusts and | |
| | | Mists | |
| | | TLV: 0.1 mg/m ³ 8 hours. Form: Fume | |
| Recommended monitoring procedures | | riate monitoring standards. Reference to hods for the determination of hazardous | |
| Appropriate engineering controls | contaminants below any recommende | ols to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive | |
| 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>95</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 | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. | | |
| Skin protection | | | |
| Hand protection | be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break | s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of ne of the gloves cannot be accurately | |
| Gloves | : butyl rubber | | |
| Body protection | being performed and the risks involve | | |
| Other skin protection | : Appropriate footwear and any addition selected based on the task being perf approved by a specialist before handl | ormed and the risks involved and should be | |

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Section 8. Exposure controls/personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| : Lic | quid. | | | | |
|-------|--|--|--|---|---|
| : Bla | ack. | | | | |
| : Ch | naracteristic. | | | | |
| : No | ot available. | | | | |
| : No | ot available. | | | | |
| : >3 | 37.78°C (>100°F) | | | | |
| : No | ot available. | | | | |
| : No | ot available. | | | | |
| : Cl | osed cup: 28.33°C (83°F |) | | | |
| : In | igredient name | °C | °F | Method | |
| bu | utan-1-ol | 355 | 671 | EU A.15 | |
| : No | ot available. | | | | |
| : No | ot applicable. | | | | |
| : Ki | nematic (40°C): >21 mm ² | ²/s | | | |
| M | edia | Result | | | |
| ¢¢ | old water | Not soluble | | | |
| : 1.4 | 4 g/l | | | | |
| : No | ot applicable. | | | | |
| : 1.4 | 4 kPa (10.8 mm Hg) | | | | |
| : 2.0 | 06 | | | | |
| : No | ot available. | | | | |
| | | | | | |
| : No | ot applicable. | | | | |
| | 64 (butyl acetate = 1) | | | | |
| | : BI : Cr : No : No : No : No : No : No : No : No | Ingredient name butan-1-ol Not available. Not applicable. Kinematic (40°C): >21 mm Media Øold water 1.4 g/l Not applicable. 1.4 kPa (10.8 mm Hg) 2.06 Not available. Not applicable. | Black. Characteristic. Not available. Not available. >37.78°C (>100°F) Not available. Not available. Not available. Closed cup: 28.33°C (83°F) Ingredient name °C butan-1-ol 355 Not available. Not available. Not available. Kinematic (40°C): >21 mm²/s Media Result Øold water Not soluble 1.4 g/l Not applicable. 1.4 kPa (10.8 mm Hg) 2.06 Not available. Not available. | : Black. : Characteristic. : Not available. : Not available. : >37.78°C (>100°F) : Not available. : Not available. : Closed cup: 28.33°C ($83°F$) : Ingredient name °C °F butan-1-ol 355 671 : Not available. : Not available. : Not applicable. : Kinematic ($40°C$): >21 mm ² /s : Media Result vot soluble : 1.4 g/l : Not applicable. : 1.4 kPa (10.8 mm Hg) : 2.06 : Not available. : Not applicable. : Not applicable. | Black. Characteristic. Not available. >37.78°C (>100°F) Not available. >37.78°C (>100°F) Not available. Not available. Closed cup: 28.33°C (83°F) Ingredient name °C °F Method butan-1-ol 355 671 EU A.15 Not available. Not available. Not available. Kinematic (40°C): >21 mm²/s Media Result Fold water Not soluble 1.4 g/l Not applicable. 1.4 kPa (10.8 mm Hg) 2.06 Not available. Not applicable. |

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. |

Section 10. Stability and reactivity

| Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition products. | ו |
|---|--|-----|
| Incompatible materials | : Keep away from the following materials to prevent strong exothermic reaction oxidizing agents, strong alkalis, strong acids. | ns: |
| Hazardous decomposition products Hazardous polymerization | Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides Under normal conditions of storage and use, hazardous polymerization will no occur. | |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|---------------------------------|---------|-------------------------|----------|
| dicopper oxide | LC50 Inhalation Dusts and mists | Rat | 3.34 mg/l | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| zinc oxide | LC50 Inhalation Dusts and mists | Rat | >5700 mg/m ³ | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| butan-1-ol | LC50 Inhalation Vapor | Rat | 24000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| kylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| N-ethyl-o(or p)- | LD50 Oral | Rat | 2250 mg/kg | - |
| oluenesulphonamide | | | | |
| copper oxide | LD50 Oral | Rat | >2000 mg/kg | - |
| n-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 | - |
| copper | LC50 Inhalation Dusts and mists | Rat | >5.11 mg/l | 4 hours |

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| kylene | Skin - Moderate irritant | Rabbit | | 24 hours 500 mg | - |

| Conclusion/Summary | |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Eyes | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Sensitization | |
| Conclusion/Summary | |
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| <u>Mutagenicity</u> | |

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Section 11. Toxicological information

| Conclusion/Summary | : There are no data available on the mixture itself. |
|--|--|
| <u>Carcinogenicity</u> 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 toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|-------------------------------------|------------|-------------------|------------------------------|
| butan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| N-ethyl-o(or p)-toluenesulphonamide | Category 3 | - | Narcotic effects |
| n-butyl acetate | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

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

| Information on the likely routes of exposure | : | Not available. |
|--|------------|---|
| Potential acute health effects | | |
| Eye contact | 1 | Causes serious eye damage. |
| Inhalation | 1 | Harmful if inhaled. |
| Skin contact | 1 | May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | 1 | Harmful if swallowed. |
| Symptoms related to the phy | <u>sic</u> | cal, chemical and toxicological characteristics |
| Eye contact | : | Adverse symptoms may include the following: pain watering redness |
| Inhalation | | No specific data. |
| Skin contact | | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | • | Adverse symptoms may include the following: stomach pains |

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Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure : Not available. **Potential immediate** effects **Potential delayed effects** : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects Not available. 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. : No known significant effects or critical hazards. Carcinogenicity **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|------------------------------|--------------|
| Øral | 899.84 mg/kg |
| Dermal | 2600.7 mg/kg |
| Inhalation (vapors) | 130.3 mg/l |
| Inhalation (dusts and mists) | 4.4 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

| Result | Species | Exposure |
|-------------------------------------|---|--|
| LC50 0.003 mg/l | Fish | 96 hours |
| Acute EC50 0.17 mg/l | Algae | 72 hours |
| Acute EC50 0.481 mg/l Fresh water | Daphnia - Daphnia magna - | 48 hours |
| _ | Neonate | |
| Chronic NOEC 0.017 mg/l Fresh water | Algae | 72 hours |
| Acute LC50 1376 mg/l | Fish | 96 hours |
| EC50 >1000 mg/l | Daphnia - <i>Daphnia magna</i> | 48 hours |
| _ | | |
| LC50 130 mg/l | Fish - Lepomis macrochirus | 96 hours |
| Acute LC50 18 mg/l | Fish | 96 hours |
| Acute LC50 810 ppb | Fish | 96 hours |
| Chronic EC10 8.1 µg/l | Daphnia - Daphnia magna - | 21 days |
| | LC50 0.003 mg/l Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water Chronic NOEC 0.017 mg/l Fresh water Acute LC50 1376 mg/l EC50 >1000 mg/l LC50 130 mg/l Acute LC50 18 mg/l Acute LC50 810 ppb | LC50 0.003 mg/lFishAcute EC50 0.17 mg/lAlgaeAcute EC50 0.481 mg/l Fresh waterDaphnia - Daphnia magna - NeonateChronic NOEC 0.017 mg/l Fresh waterAlgaeAcute LC50 1376 mg/lFishEC50 >1000 mg/lDaphnia - Daphnia magnaLC50 130 mg/lFish - Lepomis macrochirusAcute LC50 18 mg/lFishAcute LC50 810 ppbFish |

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Section 12. Ecological information

Neonate

Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|---|-----------------------|------------|----------------|------|--------------------|--------------------|
| p -butyl acetate | TEPA and OECD 301D | 83 % - Rea | dily - 28 days | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | Jradability |
| <mark>xy</mark> lene n-butyl acetate | - | | - | | Readily Readily | |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|------------|-------------|-----------|
| b∕utan-1-ol | 1 | - | Low |
| rosin | 1.9 to 7.7 | - | High |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| N-ethyl-o(or p)- | 1.87 | - | Low |
| toluenesulphonamide | | | |
| n-butyl acetate | 2.3 | - | Low |

| <u>Mobility in soil</u> Soil/water partition coefficient (K _{oc}) | : 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 minimized wherever possible. 2 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.

Section 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 | |
| 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. | (dicopper oxide) | Not applicable. |

Additional information

UN IMDG

ΙΑΤΑ

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

| Date of issue/Date of revision | : 20 December 2023 |
|--------------------------------|--------------------|
| Date of previous issue | : 12/29/2021 |
| Version | : 9.04 |
| Prepared by | : EHS |

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

Section 16. Other information

| key to abbreviations | : ATE = Acute Toxicity Estimate |
|----------------------|---|
| | BCF = Bioconcentration Factor |
| | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
| | IATA = International Air Transport Association |
| | IBC = 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 |
| | |

Procedure used to derive the classification

| Classification | Justification |
|---|-----------------------|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |
| ACUTE TOXICITY (oral) - Category 4 | Calculation method |
| ACUTE TOXICITY (dermal) - Category 5 | Calculation method |
| ACUTE TOXICITY (inhalation) - Category 4 | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 1 | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 1 | Calculation method |

V 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 us, 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.