# SAFETY DATA SHEET

#### ABC #4 RED



Date of issue 2 September 2022

**Version 10** 

# 1. Product and company identification

Product name : ABC #4 RED
Product code : 00333516
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.; Antifouling products

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

ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

**CARCINOGENICITY - Category 2** 

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 1

**GHS label elements** 

Hazard pictograms









Signal word : Danger

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## 2. Hazards identification

#### **Hazard statements**

: Fammable liquid and vapor.

Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to organs. (central nervous system (CNS), kidneys, liver,

respiratory organs, respiratory system, systemic, whole body)

Causes damage to organs through prolonged or repeated exposure. (bones, central

nervous system (CNS), nervous system, respiratory organs)

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. Wear respiratory 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 experiencing respiratory symptoms: Call a POISON CENTER or doctor. 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: 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

Disposal

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

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

and international regulations.

# Other hazards which do not 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.

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## **Product name ABC #4 RED**

# 3. Composition/information on ingredients

| Ingredient name                       | %           | CAS number | CSCL           |
|---------------------------------------|-------------|------------|----------------|
| dicopper oxide                        | 25 - <50    | 1317-39-1  | 1-297          |
| Zinc oxide                            | 15 - <20    | 1314-13-2  | 1-561          |
| Rosin                                 | 15 - <20    | 8050-09-7  | 7-935          |
| Xylene                                | 10 - <12.5  | 1330-20-7  | 3-3; 3-60      |
| Talc containing no asbestos or quartz | 7 - <10     | 14807-96-6 | Not available. |
| Cyclohexanone                         | 2 - <3      | 108-94-1   | 3-2376         |
| Oils, pine                            | 2 - <3      | 8002-09-3  | Not available. |
| Butyl acetate                         | 2 - <3      | 123-86-4   | 2-731          |
| ethyl benzene                         | 1 - <2      | 100-41-4   | 3-28; 3-60     |
| methyl isobutyl ketone                | 1 - <2      | 108-10-1   | 2-542          |
| Diiron trioxide                       | 1 - <2      | 1309-37-1  | 1-357; 5-5188  |
| copper(II) oxide                      | 0.5 - <1    | 1317-38-0  | 1-297          |
| Copper                                | 0.5 - <1    | 7440-50-8  | Not available. |
| dipentene                             | 0.2 - < 0.5 | 138-86-3   | 3-2245; 7-988; |
| ·                                     |             |            | 8-498          |

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.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not 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

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

**Skin contact**: Causes damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed. Causes damage to organs following a single exposure if

swallowed.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

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## 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

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

**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, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. 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

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.

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Product code 00333516 **Product name ABC #4 RED** 

# 5. Fire-fighting measures

**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.

## 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 or asthma, allergies or chronic or recurrent respiratory disease 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   |
|---------------------------------------|---|
| Zinc oxide                            | Japan Society for Occupational Health (Japan, 9/2021). [Class 2 dusts (Dusts containing less than 3% free silica, Bakelite, Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Titanium oxide, Wood dust, Zinc oxide)]  OEL-M: 1 mg/m³ 8 hours. Form: Respirable dust (Class 2 Dust)  OEL-M: 4 mg/m³ 8 hours. Form: Total dust (Class 2 Dust) |
| Rosin                                 | Japan Society for Occupational Health (Japan, 9/2021). Skin sensitizer. Inhalation sensitizer.  |
| Xylene                                | ISHL (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 9/2021). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m³ 8 hours.   |
| Talc containing no asbestos or quartz | Japan Society for Occupational Health (Japan, 9/2021). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)]  OEL-M: 0.5 mg/m³ 8 hours. Form: Respirable dust (Class 1 Dust)  OEL-M: 2 mg/m³ 8 hours. Form: Total dust (Class 1 Dust)   |
| Cyclohexanone                         | Japan Society for Occupational Health (Japan, 9/2021).  OEL-M: 100 mg/m³ 8 hours.  OEL-M: 25 ppm 8 hours.  ISHL (Japan, 6/2020).  TWA: 20 ppm 8 hours.  |
| Butyl acetate                         | Japan Society for Occupational Health (Japan, 9/2021).  OEL-M: 475 mg/m³ 8 hours.  OEL-M: 100 ppm 8 hours.  ISHL (Japan, 6/2020).   |
| ·                                     | Japan Page: 6/17  |

ethyl benzene

Diiron trioxide

methyl isobutyl ketone

# 8. Exposure controls/personal protection

Japan Society for Occupational Health (Japan, 9/2021). Absorbed through skin.

OEL-M: 87 mg/m<sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 20 ppm 8 hours.

TWA: 150 ppm 8 hours.

**Japan Society for Occupational Health** (Japan, 9/2021).

OEL-M: 205 mg/m<sup>3</sup> 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 6/2020). TWA: 20 ppm 8 hours.

**Japan Society for Occupational Health** (Japan, 9/2021). [Class 2 dusts (Dusts containing less than 3% free silica, Bakelite, Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Titanium oxide, Wood dust, Zinc

OEL-M: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust (Class 2 Dust)

OEL-M: 4 mg/m<sup>3</sup> 8 hours. Form: Total dust (Class 2 Dust)

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

oxide)]

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection 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.

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# 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.

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Red.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 27.78°C (82°F)

Evaporation rate : 0.62 (butyl acetate = 1)

Vapor pressure : 1 kPa (7.5 mm Hg)

Relative density : 1.81

**Solubility** : Insoluble in the following materials: cold water.

# 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.

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# 10. Stability and reactivity

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 |
|-------------------------|---------------------------------|---------|-------------------------|----------|
| 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 <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal                     | Rat     | >2000 mg/kg             | -        |
|                         | LD50 Oral                       | Rat     | >5000 mg/kg             | -        |
| Rosin                   | LD50 Dermal                     | Rat     | >2000 mg/kg             | -        |
|                         | LD50 Oral                       | Rat     | 7600 mg/kg              | -        |
| Xylene                  | LD50 Dermal                     | Rabbit  | 1.7 g/kg                | -        |
|                         | LD50 Oral                       | Rat     | 4.3 g/kg                | -        |
| Cyclohexanone           | LC50 Inhalation Gas.            | Rat     | 8000 ppm                | 4 hours  |
|                         | LC50 Inhalation Vapor           | Rat     | 11 mg/l                 | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 1100 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 1.62 g/kg               | -        |
| Oils, pine              | LD50 Dermal                     | Rabbit  | 5 g/kg                  | -        |
|                         | LD50 Oral                       | Rat     | 2.1 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             | -        |
| ethyl benzene           | LC50 Inhalation Vapor           | Rat     | 17.8 mg/l               | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 17.8 g/kg               | -        |
|                         | LD50 Oral                       | Rat     | 3.5 g/kg                | -        |
| methyl isobutyl ketone  | LC50 Inhalation Vapor           | Rat     | 11 mg/l                 | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | >5000 mg/kg             | -        |
|                         | LD50 Oral                       | Rat     | 2.08 g/kg               | -        |
| Diiron trioxide         | LC50 Inhalation Dusts and mists | Rat     | >5 mg/l                 | 4 hours  |
|                         | LD50 Oral                       | Rat     | 10 g/kg                 | -        |
| copper(II) oxide        | LD50 Oral                       | Rat     | >2000 mg/kg             | -        |
| Copper                  | LC50 Inhalation Dusts and mists | Rat     | >5.11 mg/l              | 4 hours  |
| dipentene               | LD50 Oral                       | Rat     | 5300 mg/kg              | -        |

### **Irritation/Corrosion**

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

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

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# 11. Toxicological information

# **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

| Name                                  | Category   | Route of exposure | Target organs                       |
|---------------------------------------|------------|-------------------|-------------------------------------|
| dicopper oxide                        | Category 1 | -                 | whole body                          |
|                                       | Category 3 |                   | Respiratory tract                   |
|                                       |            |                   | irritation                          |
| Zinc oxide                            | Category 1 | -                 | respiratory organs,                 |
|                                       |            |                   | systemic                            |
| Xylene                                | Category 1 | -                 | central nervous                     |
|                                       |            |                   | system (CNS),                       |
|                                       |            |                   | kidneys, liver,                     |
|                                       | Category 3 |                   | respiratory organs Narcotic effects |
| Talc containing no asbestos or quartz | Category 1 |                   | respiratory organs                  |
| Cyclohexanone                         | Category 1 | -                 | respiratory system                  |
| Cyclonexamone                         | Category 2 | -                 | central nervous                     |
|                                       | Category 2 |                   | system (CNS)                        |
|                                       | Category 3 |                   | Narcotic effects                    |
| Butyl acetate                         | Category 3 | _                 | Respiratory tract                   |
|                                       | Janaga, y  |                   | irritation                          |
|                                       | Category 3 |                   | Narcotic effects                    |
| ethyl benzene                         | Category 3 | -                 | Respiratory tract                   |
|                                       |            |                   | irritation                          |
|                                       | Category 3 |                   | Narcotic effects                    |
| methyl isobutyl ketone                | Category 3 | -                 | Respiratory tract                   |
|                                       |            |                   | irritation                          |
|                                       | Category 3 |                   | Narcotic effects                    |
| Diiron trioxide                       | Category 1 | -                 | respiratory organs                  |
| copper(II) oxide                      | Category 1 | -                 | systemic                            |
|                                       | Category 3 |                   | Respiratory tract                   |
|                                       |            |                   | irritation                          |
| Copper                                | Category 1 | -                 | digestive organs                    |
|                                       | Category 3 |                   | Respiratory tract                   |
|                                       |            |                   | irritation                          |

# Specific target organ toxicity (repeated exposure)

| Name                                  | Category   | Route of exposure | Target organs                             |
|---------------------------------------|------------|-------------------|---|
| Vylene                                | Category 1 | -                 | nervous system, respiratory organs        |
| Talc containing no asbestos or quartz | Category 1 | -                 | respiratory organs                        |
| Cyclohexanone                         | Category 1 | -                 | bones, central<br>nervous system<br>(CNS) |
| ethyl benzene                         | Category 2 | -                 | hearing organs                            |
| methyl isobutyl ketone                | Category 1 | -                 | central nervous<br>system (CNS)           |
| Diiron trioxide                       | Category 1 | -                 | respiratory organs                        |

## **Aspiration hazard**

| Name       | Result   |
|------------|--|
| Oils, pine | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

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Product code 00333516

**Product name ABC #4 RED** 

# 11. Toxicological information

Information on the likely routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

**Skin contact**: Causes damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Marmful if swallowed. Causes damage to organs following a single exposure if

swallowed.

### 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

wheezing and breathing difficulties

asthma

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

**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 : Causes 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.

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# 11. Toxicological information

Carcinogenicity

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

exposure.

Mutagenicity : Suspected of causing genetic defects.Reproductive toxicity : May damage fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

| Product/ingredient name | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|----------------------------------|--|
| ₩BC #4 RED              | 1615.3           | 5390.6            | N/A                            | 40.6                             | 5.1  |
| dicopper oxide          | 500              | 2500              | N/A                            | N/A                              | 3.34   |
| Zinc oxide              | N/A              | 2500              | N/A                            | N/A                              | N/A  |
| Rosin                   | 7600             | 2500              | N/A                            | N/A                              | 1.5  |
| Xylene                  | 4300             | 1700              | N/A                            | 11                               | N/A  |
| Cyclohexanone           | 1620             | 300               | N/A                            | 3                                | N/A  |
| Oils, pine              | 2100             | 5000              | N/A                            | N/A                              | N/A  |
| Butyl acetate           | 10768            | N/A               | N/A                            | N/A                              | N/A  |
| ethyl benzene           | 3500             | 17800             | N/A                            | 17.8                             | N/A  |
| methyl isobutyl ketone  | 2080             | N/A               | N/A                            | 3                                | N/A  |
| Diiron trioxide         | 10000            | N/A               | N/A                            | N/A                              | N/A  |
| copper(II) oxide        | 2500             | N/A               | N/A                            | N/A                              | N/A  |
| dipentene               | 5300             | N/A               | N/A                            | N/A                              | N/A  |

#### 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.

# 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result                              | Species                      | Exposure |
|-------------------------|-------------------------------------|------------------------------|----------|
| dicopper oxide          | LC50 0.003 mg/l                     | Fish                         | 96 hours |
| Zinc oxide              | 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 |
| Butyl acetate           | Acute LC50 18 mg/l                  | Fish                         | 96 hours |
| ethyl benzene           | Acute EC50 1.8 mg/l Fresh water     | Daphnia                      | 48 hours |
|                         | Chronic NOEC 1 mg/l Fresh water     | Daphnia - Ceriodaphnia dubia | -        |
| methyl isobutyl ketone  | Acute LC50 >179 mg/l                | Fish                         | 96 hours |
| Diiron trioxide         | Acute EC50 >100 mg/l                | Daphnia                      | 48 hours |
| Copper                  | Acute LC50 810 ppb                  | Fish                         | 96 hours |
| dipentene               | LC50 0.221 mg/l                     | Fish                         | 96 hours |

### Persistence/degradability

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## **Product name ABC #4 RED**

# 12. Ecological information

| Product/ingredient name                 | Test                  | Result     |                                  | Dose | Inoculum         |
|---|-----------------------|------------|----------------------------------|------|------------------|
| Butyl acetate                           | TEPA and<br>OECD 301D | 83 % - Rea | dily - 28 days                   | -    | -                |
| ethyl benzene<br>methyl isobutyl ketone | -<br>OECD 301F        |            | dily - 10 days<br>dily - 28 days | -    | -                |
| Product/ingradient name                 | Aquatic half-life     |            | Photolyeis                       | · ·  | Riodogradability |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| ✓ylene                  | -                 | -          | Readily          |
| Butyl acetate           | -                 | -          | Readily          |
| ethyl benzene           | -                 | -          | Readily          |
| methyl isobutyl ketone  | -                 | -          | Readily          |

### **Bioaccumulative potential**

| Product/ingredient name | LogPow     | BCF         | Potential |
|-------------------------|------------|-------------|-----------|
| Rosin                   | 1.9 to 7.7 | -           | high      |
| Xylene                  | 3.12       | 7.4 to 18.5 | low       |
| Cyclohexanone           | 0.86       | -           | low       |
| Butyl acetate           | 2.3        | -           | low       |
| ethyl benzene           | 3.6        | 79.43       | low       |
| methyl isobutyl ketone  | 1.9        | -           | low       |
| dipentene               | 4.57       | -           | high      |

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

Other adverse effects

: No known significant effects or critical hazards.

# 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.

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# 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.  | (dicopper oxide, zinc oxide) | 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

# 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 |
|-----------------|-----------|---------|------------------|
| ▼ylene          | ≥10 - ≤20 | Class 1 | 80               |
| Ethylbenzene    | ≤10       | Class 1 | 53               |

## **ISHL**

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

| Ingredient name        | %   |                                      | Reference number |
|------------------------|-----|--------------------------------------|------------------|
| Ethyl benzene          |     | Group-2 Substances under Supervision | 3-3              |
| Methyl isobutyl ketone | ≤10 | Special Organic Solvents             | 33-2             |

### Substance(s) requiring labelling

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

# 15. Regulatory information

| Ingredient name                  | %         | Status | Reference number |
|----------------------------------|-----------|--------|------------------|
| <b>反</b> opper and its compounds | ≥30 - ≤40 | Listed | 379              |
| Zinc oxide                       | ≥10 - ≤20 | Listed | 188              |
| Rosin                            | ≥10 - ≤20 | Listed | 632              |
| Xylene                           | ≥10 - ≤20 | Listed | 136              |
| Cyclohexanone                    | ≤10       | Listed | 231              |
| Butyl acetate                    | ≤10       | Listed | 181              |
| Ethylbenzene                     | ≤10       | Listed | 70               |
| Methyl isobutyl ketone           | ≤10       | Listed | 569              |
| Iron oxide                       | ≤10       | Listed | 192              |

## **Chemicals requiring notification**

| Ingredient name          | %         | Status | Reference number |
|--------------------------|-----------|--------|------------------|
| copper and its compounds | ≥30 - ≤40 | Listed | 379              |
| Zinc oxide               | ≥10 - ≤20 | Listed | 188              |
| Rosin                    | ≥10 - ≤20 | Listed | 632              |
| Xylene                   | ≥10 - ≤20 | Listed | 136              |
| Cyclohexanone            | ≤10       | Listed | 231              |
| Butyl acetate            | ≤10       | Listed | 181              |
| Ethylbenzene             | ≤10       | Listed | 70               |
| Methyl isobutyl ketone   | ≤10       | Listed | 569              |
| Iron oxide               | ≤10       | Listed | 192              |

### Carcinogen

| Ingredient name        | %   |        | Reference number |
|------------------------|-----|--------|------------------|
| ethylbenzene           | ≤10 | Listed | -                |
| methyl isobutyl ketone | ≤10 | Listed |                  |

### **Mutagen**

None of the components are listed.

**Corrosive liquid** : Not listed

**Occupational Safety and** 

**Health Law** 

: Inflammable, Combustible

: Inflammable, Combustible

: Not listed

: Not listed

: Not listed

Regulations on the

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

**Harmful Substances Subject to Obtaining** 

**Permission for** 

**Manufacturing** 

Harmful Substances,

**Prohibited for** 

**Manufacturing** 

**ISHL Enforcement Order** 

**Appendix 1 - Dangerous** 

**Substances** 

**Lead regulation** : Not listed **Organic solvents** : Class 2

poisoning prevention

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## **Product name ABC #4 RED**

# 15. Regulatory information

### **Poisonous and Deleterious Substances**

None of the components are listed.

### **Chemical Substances Control Law (CSCL)**

| Ingredient name   | %         | Status              | Reference number |
|---|-----------|---------------------|------------------|
| Kylene  | 10.748    | Priority assessment | 125              |
| Cyclohexanone   | 2.8204    | Priority assessment | 131              |
| Ethylbenzene  | 1.911     | Priority assessment | 50               |
| Methyl isobutyl ketone  | 1.3119    | Priority assessment | 116              |
| Polychlorinated normal paraffin (It is limited that the number of carbon is 10 to 13 and the content of chlorine is more than 48% of the total weight.) | 0.363     | Class I Specified   | 32               |
| Toluene   | 0.062886  | Priority assessment | 46               |
| Benzene   | 0.031183  | Priority assessment | 45               |
| 1-Butanol   | 0.0063432 | Priority assessment | 124              |

High Pressure Gas Control

Law

**Explosives Control Law** 

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

: Not available.

### **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.

**JSOH Carcinogen** : Group 1 **List of Specially Controlled** 

**Industrial Waste** 

: Not listed

Japan inventory : At least one component is not listed.

**Road law** : Not available.

## 16. Other information

**History** 

Date of issue/Date of : 2 September 2022

revision

**Date of previous issue** : 6/16/2021

**Version** : 10 **Prepared by** : EHS

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Date of issue 2 September 2022 Version 10

Product code 00333516
Product name ABC #4 RED

## 16. Other information

**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.

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