SAFETY DATA SHEET

ABC#3 BLACK 283S5773 AF-NAVY



Date of issue 2 September 2025

Version 17

1. Product and company identification

Product name : ABC#3 BLACK 283S5773 AF-NAVY

Product code : 00333511
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 SERIOUS EYE DAMAGE - Category 1

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1

TOXIC TO REPRODUCTION - Category 1B

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

irritation) - Category 3

SPECIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 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

: Mammable liquid and vapor.

Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

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

May cause respiratory irritation.

May damage fertility or the unborn child.

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

kidneys, liver, respiratory organs, systemic toxicity, whole body)

May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, 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 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 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.

Ingredient name	%	CAS number	CSCL
dicopper oxide	25 - <50	1317-39-1	1-297
Zinc oxide	10 - <12.5	1314-13-2	1-561
1-Butanol	7 - <10	71-36-3	2-3049
Rosin	7 - <10	8050-09-7	7-935
Xylene	7 - <10	1330-20-7	3-3; 3-60
triiron tetraoxide	3 - <5	1317-61-9	1-357
N-ethyl-o(or p)-toluenesulphonamide	2 - <3	8047-99-2	3-1929
copper(II) oxide	1 - <2	1317-38-0	1-297
Butyl acetate	1 - <2	123-86-4	2-731
	1		1

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Product code 00333511 Date of issue 2 September 2025 Version 17

Product name ABC#3 BLACK 283S5773 AF-NAVY

3. Composition/information on ingredients

Copper	1 - <2	7440-50-8	Not available.
Ethyl Benzene	0.2 - < 0.5	100-41-4	3-28; 3-60
Methanol	0.2 - <0.5	67-56-1	2-201

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, 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

Eye contact : Causes serious eye damage.

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 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:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

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4. First aid measures

Ingestion

: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

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 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

for fire-fighters

Special protective actions : 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.

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.

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6. Accidental release measures

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.

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.

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8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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OEL-M 8 hours: 4 mg/m³. Form: Total dust (Class 2 Dust). Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. n-butyl acetate Japan Society for Occupational Health (Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
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Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
(Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	conner evide	· · · · · · · · · · · · · · · · · · ·
Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	copper oxide	
Japan Society for Occupational Health (Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
(Japan, 5/2024) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	n-hutyl acetate	
OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	n-butyl acctate	
OEL-M 8 hours: 475 mg/m³. Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
Industrial Safety and Health Act (Japan, 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
topper copper copper dethylbenzene 11/2024) TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
TWA 8 hours: 150 ppm. Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. ethylbenzene Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
Japan Society for Occupational Health (Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.		
(Japan, 5/2024) [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	copper	·
Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.	• •	(Japan, 5/2024) [Copper and compounds]
(Japan, 5/2024) Absorbed through skin.		
(Japan, 5/2024) Absorbed through skin.	ethylbenzene	Japan Society for Occupational Health
OEL-M 8 hours: 20 ppm.		
		OEL-M 8 hours: 20 ppm.
Japan Page: 6/		Japan Page: 6/1

methanol

8. Exposure controls/personal protection

OEL-M 8 hours: 87 mg/m³.

Industrial Safety and Health Act (Japan,

11/2024)

TWA 8 hours: 20 ppm.

Japan Society for Occupational Health (Japan, 5/2024) Absorbed through skin.

OEL-M 8 hours: 200 ppm. OEL-M 8 hours: 260 mg/m³.

Industrial Safety and Health Act (Japan,

11/2024)

TWA 8 hours: 200 ppm.

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.

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

: 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.

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8. Exposure controls/personal protection

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 : Black.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 28.33°C (83°F)

Evaporation rate : 0.64 (butyl acetate = 1)

Vapor pressure : 1.4 kPa (10.8 mm Hg)

Relative density : 2.06

Solubility(ies) : Media Result

cold water Not soluble

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 nitrogen oxides sulfur oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Japan Page: 8/17

11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
d icopper 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	-
1-Butanol	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	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
triiron tetraoxide	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
N-ethyl-o(or p)-	LD50 Oral	Rat	2250 mg/kg	-
toluenesulphonamide				
copper(II) oxide	LD50 Oral	Rat	>2000 mg/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	-
Copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
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	-
Methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1 -Butanol	Eyes - Cornea opacity	Rabbit	4	-	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

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11. Toxicological information

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 toxicity
1-Butanol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Rosin	Category 3	-	Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver,
	Category 3		respiratory organs Narcotic effects
- N-ethyl-o(or p)-toluenesulphonamide	Category 3	-	Narcotic effects
copper(II) oxide	Category 1		systemic toxicity
-	Category 3	-	Respiratory tract irritation
Butyl acetate	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Copper	Category 1	-	digestive organs
-	Category 3	-	Respiratory tract irritation
Ethyl Benzene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Methanol	Category 1	-	central nervous system (CNS), systemic toxicity, visual organ
-	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
才 -Butanol	Category 1	-	central nervous system (CNS), hearing organs
Xylene	Category 1	-	nervous system, respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Methanol	Category 1	-	central nervous system (CNS), visual organ

Aspiration hazard

Name	Result
▼ylene	ASPIRATION HAZARD - Category 1
Ethyl Benzene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

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Date of issue 2 September 2025 Version 17

Product code 00333511

Product name ABC#3 BLACK 283S5773 AF-NAVY

11. Toxicological information

Potential acute health effects

Eye contact : Causes serious eye damage.

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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain 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:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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 : No known significant effects or critical hazards.Mutagenicity : No known significant effects or critical hazards.

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Product name ABC#3 BLACK 283S5773 AF-NAVY

11. Toxicological information

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)
ABC#3 BLACK 283S5773 AF-NAVY	1031.3	21387.1	N/A	155.0	7.0
dicopper oxide	500	2500	N/A	N/A	3.34
Zinc oxide	N/A	2500	N/A	N/A	N/A
1-Butanol	N/A	3400	N/A	24	N/A
Rosin	7600	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
N-ethyl-o(or p)-toluenesulphonamide	2250	N/A	N/A	N/A	N/A
copper(II) oxide	2500	N/A	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
Methanol	500	15800	64000	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 - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
1-Butanol	Acute LC50 1376 mg/l	Fish	96 hours
triiron tetraoxide	Acute LC50 10000 mg/l	Fish	96 hours
N-ethyl-o(or p)- toluenesulphonamide	EC50 >1000 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	LC50 130 mg/l	Fish - Lepomis macrochirus	96 hours
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
Ethyl Benzene	-	79 % - Readily - 10 days	-	-

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12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓ylene	-	-	Readily
Butyl acetate	-	-	Readily
Ethyl Benzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
才 -Butanol	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			
Butyl acetate	2.3	-	Low
Ethyl Benzene	3.6	79.43	Low
Methanol	-0.77	-	Low

Mobility in soil

Soil/Water partition

coefficient

: 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

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

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14. Transport information

Environmental	Yes. The environmentally	Yes.	Yes. The environmentally
hazards	hazardous substance mark is		hazardous substance mark is
	not required.		not required.
Marine pollutant substances	Not applicable.	(dicopper 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
Xylene	7.1	Class 1	80

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
⊘ opper and its compounds	≥50 - ≤60	Listed	379
Copper and its compounds(2025-04)	≥50 - ≤60	Listed	22
			(2025-04)
Zinc oxide	≥10 - ≤20	Listed	188, 2-619
Butanol	≤10	Listed	(2025-04) 477,
Butanoi	310	Listeu	2-1705
			(2025-04)
Rosin	≤10	Listed	632,
			2-2274
W.L.	440	1.2.41	(2025-04)
Xylene	≤10	Listed	136, 2-426
Iron oxide	≤10	Listed	(2025-04) 192, 2-624
non oxido	-10	Liotod	102, 2 024

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15. Regulatory information

			(2025-04)
Butyl acetate	≤10	Listed	181, 2-603
			(2025-04)
Ethylbenzene	≤10		70, 2-247
			(2025-04)
Methanol	≤10		560,
			2-2006
			(2025-04)

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Copper and its compounds	≥50 - ≤60	Listed	379
Copper and its compounds(2025-04)	≥50 - ≤60	Listed	22
			(2025-04)
Zinc oxide	≥10 - ≤20	Listed	188, 2-619
			(2025-04)
Butanol	≤10	Listed	477,
			2-1705
			(2025-04)
Rosin	≤10	Listed	632,
			2-2274
Vylana	<10	Lietod	(2025-04)
Xylene	≤10	Listed	136, 2-426 (2025-04)
Iron oxide	≤10	Listed	192, 2-624
IIOII Oxide	310	Listeu	(2025-04)
Butyl acetate	≤10	Listed	181, 2-603
Buty, abotato	0	Liotod	(2025-04)
Ethylbenzene	≤10	Listed	70, 2-247
			(2025-04)
Methanol	≤10	Listed	560,
			2-2006
			(2025-04)

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

None of the components are listed.

Mutagen

None of the components are listed.

Corrosive liquid : Not listed

Occupational Safety and

Health Law

: Inflammable, Combustible

Regulations on the **Prevention of Tetraalkyl**

Lead Poisoning

: Not listed

Harmful Substances Subject to Obtaining Permission for Manufacturing

Harmful Substances, **Prohibited for**

Manufacturing

: Not listed

: Not listed

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Japan

Product code 00333511 Date of issue 2 September 2025 Version 17

Product name ABC#3 BLACK 283S5773 AF-NAVY

15. Regulatory information

ISHL Enforcement Order : Inflammable, Combustible

Appendix 1 - Dangerous

Substances

Lead regulation: Not listedOrganic solvents: Class 2

poisoning prevention

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
1 ∕-Butanol	≤10	Priority assessment	124
Xylene	≤10	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45

High Pressure Gas Control: Not available.

Law

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.

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

Industrial Waste

Japan inventory : All components are listed or exempted.

Road law : Not available.

16. Other information

<u>History</u>

Date of issue/Date of : 2 September 2025

revision

Date of previous issue : 12/20/2023

Version : 17
Prepared by : EHS

Japan Page: 16/17

Product code 00333511

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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