# **Safety Data Sheet**



Date of issue

Version 6.03

3 July 2025

# Section 1. Product and company identification

Product name : SIGMA ECOFLEET 530 BLACK 800000

Product code : 180438.20
Other means of identification : Not available.

Product type : Liquid.

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

**Identified uses** 

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:

Supplier : PPG Industrial do Brasil – Tintas e Vernizes Ltda

Via Anhanguera KM 106, Bairro Sao Judas Tadeu

Sumare / SP, Brasil

55 19 2103-6000 (Recepção e Portaria)

Email address: : fds@ppg.com

Emergency telephone number : 0800 707 1767 / 0800 707 7022 – Empresa Ambipar response (24hs)

0800 014 8110 / (011)2661-8571 – CEATOX - Centro de Assistência Toxicológica

(atendimento 24hs)

### 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 IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

Target organs : Contains material which causes damage to the following organs: brain.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

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SIGMA ECOFLEET 530 BLACK 800000 **Product name** 

### Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 4.8%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 13.5%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 24.6%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9.6%

### **GHS** label elements

**Hazard pictograms** 











Signal word

**Hazard statements** 

Danger

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. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

**Prevention** 

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.

Response

Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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. Take off contaminated clothing and wash it before reuse. 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** 

Not applicable.

**Disposal** 

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

result in classification

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

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Product name SIGMA ECOFLEET 530 BLACK 800000

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.
identification

Ingredient name	%	CAS number/other identifiers	Classification
dícopper oxide	≥30 - ≤48	1317-39-1	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
zinc oxide	≥10 - ≤15	1314-13-2	ACUTE TOXICITY (dermal) - Category 5 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
xylene	≥10 - ≤13	1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
rosin	≥10 - ≤14	8050-09-7	ACUTE TOXICITY (dermal) - Category 5 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 4
5-methylhexan-2-one	≥5 - ≤10	110-12-3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 TOXIC TO REPRODUCTION - Category 2 ASPIRATION HAZARD - Category 2

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# **Section 3. Composition/information on ingredients**

<u> </u>			
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	≥3 - ≤5	25154-85-2	EYE IRRITATION - Category 2A
Talc , not containing asbestiform fibres	≥1 - ≤4	14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
carbon black	≥1 - ≤3	1333-86-4	CARCINOGENICITY - Category 2
4,5-dichloro-2-octyl-2H-isothiazol-3-one	≥0.3 - ≤2.7	64359-81-5	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
ethylbenzene	≥1 - ≤3	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3
copper oxide	≥1 - ≤3	1317-38-0	ACUTE TOXICITY (oral) - Category 5 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
copper	<1	7440-50-8	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
Reaction products of 12-hydroxyoctadecanoic acid and	<1	911674-82-3	SKIN SENSITIZATION - Category 1B

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Continue 2 Composition / information on incredients

## Section 3. Composition/information on ingredients

octadecanoic acid and 1,3-phenylenedimethanamine			
Cashew, nutshell liq.	<1	8007-24-7	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 4
lead monoxide	<0.1	1317-36-8	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact**: 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.

#### 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.

**Specific treatments**: The exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment.

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### Section 4. First aid measures

**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.

#### Potential acute health effects

**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.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: 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

halogenated compounds metal oxide/oxides oxides of lead

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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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### Section 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.

## Section 7. Handling and storage

**Precautions for safe** handling

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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.

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.

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## Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from 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
dicopper oxide	ACGIH TLV (United States, 1/2024)
	[copper fume]
	TWA 8 hours: 0.2 mg/m³. Form: Fume.
zinc oxide	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 2 mg/m³. Form: Respirable
	fraction.
	STEL 15 minutes: 10 mg/m³. Form:
	Respirable fraction.
xylene	Ministry of Labor and Employment (Brazil,
	11/2001) [Xylenes (o-, m-, p- isomers)]
	TWA 8 hours: 78 ppm.
	TWA 8 hours: 340 mg/m <sup>3</sup> .
rosin	ACGIH TLV (United States, 1/2024) [resin
	acids] Skin sensitizer , Inhalation sensitizer.
	TWA 8 hours: 0.001 mg/m³ (as total Resin
	acids). Form: Inhalable fraction.
5-methylhexan-2-one	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 93 mg/m <sup>3</sup> .
	STEL 15 minutes: 50 ppm.
	STEL 15 minutes: 234 mg/m³.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 2 mg/m³. Form: Respirable
	fraction.
carbon black	Ministry of Labor and Employment (Brazil,
	11/2001)
	TWA 8 hours: 3.5 mg/m³.
ethylbenzene	Ministry of Labor and Employment (Brazil,
	11/2001)
	TWA 8 hours: 78 ppm.
	TWA 8 hours: 340 mg/m³.
copper oxide	ACGIH TLV (United States, 1/2024)
	[copper fume]
	TWA 8 hours: 0.2 mg/m³. Form: Fume.
copper	ACGIH TLV (United States, 1/2024)
	[copper dusts and mists]
	TWA 8 hours: 1 mg/m³ (as Cu). Form: Dust

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## Section 8. Exposure controls/personal protection

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine

lead monoxide

and mist.

ACGIH TLV (United States, 1/2024)

[copper fume]

TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Fume.

ACGIH TLV (United States)

TWA: 3 mg/m³ (Respirable fraction).

TWA: 10 mg/m<sup>3</sup> (Total dust).

ACGIH TLV (United States, 1/2024) [Lead

and inorganic compounds]

TWA 8 hours: 0.05 mg/m³ (as Pb).

#### 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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## Section 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.

## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Black.
Odor : Aromatic.
pH : Not applicable.
Melting point : Not available.
Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 30°C (86°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.78

Solubility(ies) : Media Result

cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**Particle characteristics** 

Median particle size : 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.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition

products.

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## Section 10. Stability and reactivity

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 halogenated compounds metal oxide/

## **Section 11. Toxicological information**

### Information on toxicological effects

This section contains information about toxicological effects and routes of exposure for the substances or mixtures that have these data or information available. There might be substances listed in section 3 of this SDS that will not have the information available.

Harmful if swallowed or if inhaled.

May be harmful in contact with skin.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of damaging the unborn child.

Suspected of causing cancer.

#### **Acute toxicity**

Product/ingredient name	Result	Dose
dicopper oxide	Rat - Oral - LD50	500 mg/kg
• •	Rat - Dermal - LD50	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and	3.34 mg/l [4 hours]
	mists	
zinc oxide	Rat - Oral - LD50	>5000 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and	>5700 mg/m³ [4 hours]
	mists	
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
rosin	Rat - Oral - LD50	7600 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
5-methylhexan-2-one	Rabbit - Dermal - LD50	8.14 g/kg
•	Rat - Oral - LD50	5657 mg/kg
	Rat - Inhalation - LC50 Gas.	5000 ppm [4 hours]
carbon black	Rat - Oral - LD50	>10 g/kg
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Rat - Oral - LD50	567 mg/kg
,	Rabbit - Dermal - LD50	3.9 g/kg
	Rat - Inhalation - LC50 Dusts and	0.16 mg/l [4 hours]
	mists	3 1
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
•	Rabbit - Dermal - LD50	17.8 g/kg
	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
copper oxide	Rat - Oral - LD50	>2000 mg/kg
copper	Rat - Inhalation - LC50 Dusts and	>5.11 mg/l [4 hours]
• •	mists	
Reaction products of	Rat - Inhalation - LC50 Dusts and	>5.08 mg/l [4 hours]
12-hydroxyoctadecanoic acid and	mists	
octadecanoic acid and		

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Product name SIGMA ECOFLEET 530 BLACK 800000

# Section 11. Toxicological information

1,3-phenylenedimethanamine

**Conclusion/Summary** 

: Harmful if swallowed or if inhaled.
May be harmful in contact with skin.

#### **Irritation/Corrosion**

Product/ingredient name	Species	Dose	Score
<b>x</b> ýlene	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours	-

**Conclusion/Summary** 

Skin : Zauses skin irritation.

Eyes : Causes serious eye damage.

**Respiratory**: Based on available data, the classification criteria are not met.

**Sensitization** 

**Conclusion/Summary** 

Skin : May cause an allergic skin reaction.

Respiratory: Based on available data, the classification criteria are not met.

**Mutagenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Carcinogenicity** 

**Conclusion/Summary**: Suspected of causing cancer.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
kylene	-	3	-
carbon black	-	2B	-
ethylbenzene	-	2B	-

**Carcinogen Classification code:** 

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### **Reproductive toxicity**

Product/ingredient name	Species	Result
	Rabbit - Inhalation OECD 414 1250 ppm	<u>Developmental</u> : Equivocal

**Conclusion/Summary**: Sased on available data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

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## **Section 11. Toxicological information**

Name	Category	Route of exposure	Target organs
kylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 3	-	Respiratory tract irritation

**Conclusion/Summary**: Sased on available data, the classification criteria are not met.

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2 Category 2	-	hearing organs

**Conclusion/Summary** 

: Based on available data, the classification criteria are not met.

**Target organs** 

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

### **Aspiration hazard**

Name	Result
xylene	ASPIRATION HAZARD - Category 1
5-methylhexan-2-one	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1

**Conclusion/Summary**: Sased on available data, the classification criteria are not met.

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

**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.

### Symptoms related to the physical, chemical and toxicological characteristics

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

pain watering redness

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## Section 11. Toxicological information

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

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

#### **Conclusion/Summary**

There are no data available on the mixture itself. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/ or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### **Short term exposure**

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

Long term exposure

: There are no data available on the mixture itself.

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## **Section 11. Toxicological information**

Potential immediate

: There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

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

exposure.

Mutagenicity : No known significant effects or critical hazards.

**Reproductive toxicity**: Suspected of damaging 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)
SIGMA ECOFLEET 530 BLACK 800000	1217.8	2604.7	51007.6	40.4	1.9
dicopper oxide	500	2500	N/A	N/A	3.34
zinc oxide	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
rosin	7600	2500	N/A	N/A	N/A
5-methylhexan-2-one	5657	8140	5000	11	1.5
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	1100	N/A	N/A	0.16
ethylbenzene	3500	17800	N/A	17.8	1.5
copper oxide	2500	N/A	N/A	N/A	N/A
Cashew, nutshell liq.	500	1100	N/A	N/A	N/A
lead monoxide	500	N/A	N/A	11	1.5

Other information : Not available.

## **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Dose / Exposure
dicopper oxide	LC50	Fish	0.003 mg/l [96 hours]
zinc oxide	Acute - EC50 - Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	0.481 mg/l [48 hours]
	Acute - EC50	Algae	0.17 mg/l [72 hours]
	Chronic - NOEC - Fresh water	Algae	0.017 mg/l [72 hours]
5-methylhexan-2-one	Acute - LC50	Fish	159 mg/l [96 hours]
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute - EC50 - Marine water	Algae - Diatom - <i>Nitzschia</i> pungens	267.368 µg/l [96 hours]
	Chronic - NOEC - Marine water	Algae - Diatom - <i>Nitzschia</i> pungens	19.789 µg/l [96 hours]
	Acute - LC50 - Marine water	Crustaceans - Brine shrimp - Artemia sp.	0.318 mg/l [48 hours]

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# Section 12. Ecological information

	Acute - LC50 - Fresh water	Fish	0.0027 mg/l [96 hours]
	Chronic - NOEC - Fresh	Fish	0.00056 mg/l [97 days]
	water		
ethylbenzene	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]
	Chronic - NOEC - Fresh	Daphnia - Ceriodaphnia	1 mg/l
	water	dubia	
copper	Acute - LC50	Fish	810 ppb [96 hours]
	Chronic - EC10	Daphnia - Water flea -	8.1 µg/l [21 days]
		Daphnia magna - Neonate	
Reaction products of	Acute - LC50	Fish	>100 mg/l [96 hours]
12-hydroxyoctadecanoic acid			
and octadecanoic acid and			
1,3-phenylenedimethanamine			

**Conclusion/Summary**: Not available.

### Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
<b>5</b> -methylhexan-2-one ethylbenzene		67% [28 days] - Readily 79% [10 days] - Readily	

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily
5-methylhexan-2-one	-	-	Readily
ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
rosin	1.9 to 7.7	-	High
5-methylhexan-2-one	1.88	-	Low
ethylbenzene	3.6	79.43	Low
Cashew, nutshell liq.	>4.78	-	High

### **Mobility in soil**

Soil/Water partition : Not

coefficient

: Not available.

### **Other adverse effects**

No known significant effects or critical hazards.

**Product name** SIGMA ECOFLEET 530 BLACK 800000

## Section 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 nonrecyclable 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**

	Brazil (ANTT)	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)	Not applicable.

#### Additional information

**Brazil** : None identified.

Risk number : 30

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

IATA : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not applicable.

to IMO instruments

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## Section 15. Regulatory information

**References** : ABNT NBR 14725: 2023 (April 2025)

### Section 16. Other information

**History** 

Date of previous issue : 12/16/2024

Version : 6.03
Prepared by : EHS

**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.

### **Disclaimer**

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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