# SAFETY DATA SHEET



Date of issue/Date of revision 13 August 2025

**Version 4** 

### **Section 1. Identification**

Product name : SIGMA ECOFLEET 690 REDBROWN

**Product code** : 000001181127 **Other means of** : 00435247

identification

Product type : Liquid.

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

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Antifouling products

Uses advised against

: Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272

**Emergency telephone** 

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number : 888-977-4762

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4

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

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 2.1%

(oral), 38.6% (dermal), 29.2% (inhalation)

**GHS** label elements

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## Section 2. Hazards identification

**Hazard pictograms** 

: /









Signal word

**Hazard statements** 

: Danger

: Flammable liquid and vapor.

Harmful if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer.

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

**Precautionary statements** 

**Prevention** 

: Detain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

Exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If 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.

Supplemental label elements

: 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. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: SIGMA ECOFLEET 690 REDBROWN

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# Section 3. Composition/information on ingredients

Ingredient name	Synonyms	%	CAS number
dicopper oxide	copper (I) oxide; Copper oxide (Cu2O); Copper oxide; Cuprous oxide; copper(I) oxide containing by weight 78 % or more of copper and not more than 0,03 % of chloride; catalyst containing by weight of — 52 % (+/- 10 %) of cuprous oxide (CAS RN 1317-39-1), — 38 % (+/- 10 %) of cupric oxide (CAS RN 1317-38-0) and — 10 % (+/- 5 %) of metallic copper (CAS RN 7440-50-8); C.I. 77402; dicopper oxide; C.I. 77402; dicopper oxide; cuprous oxide; copper(1+) oxidocopper; Red copper oxide; Copper protoxide	30 - 60	1317-39-1
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene	5 - 10	1330-20-7
zineb (ISO)	zinc ethylenebis (dithiocarbamate); zinc ethylenebis(dithiocarbamate) (polymeric); zineb; Z-78; Zinc, [[2-[(dithiocarboxy) amino]ethyl]carbamodithioato(2-)kappa. S,.kappa.S']-; zinc ethylenebisdithiocarbamate; zinc ethylenebisdithiocarbamate, polymeric; [{2-[(disulfanylmethyl)amino] ethyl}carbamodithioato(3-)-k2S,S']zincate (1-); Zinc, (ethylenebis(dithiocarbamato))-; Carbamodithioic acid, 1,2-ethanediylbis,zinc complex; [N-[2-[(Dithiocarboxy) amino]ethyl]carbamodithioato(2-)-kappaS,kappaS']zinc	5 - 10	12122-67-7
diiron trioxide	Iron oxide (Fe2O3); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxide, anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	5 - 10	1309-37-1
2-methylpropan-1-ol	iso-butanol; 1-Propanol, 2-methyl-; Isobutyl alcohol; Isobutanol; 2-Methyl-	1 - 5	78-83-1

# Section 3. Composition/information on ingredients

Section 3. Composition/im	iormation on ingredients		
	1-propanol; Isopropylcarbinol; IBA; i-Butyl alcohol; catalyst consisting predominantly of dinonylnaphthalenedisulphonic acid in the form of a solution in isobutanol; isobutanol; iso-butanol; Isobutyl alcohol (I,T)		
Zeolites	ZEOLITE; Zeolite, MeO.Al2O3.2SiO2. NH2O, methyl = Na,K,Ca; aluminosilicates; Type-a Zeolite; Zeolite particles; Crystal structure types, zeolites; Aluminosilicates, zeolites; Zeolite, cuboidal, crystalline, synthetic, non- fibrous; zeolite dust; dioxosilane oxo (oxoalumanyloxy)alumane	1 - 5	1318-02-1
Kaolin	Argilla; Porcelain clay; Hydrite; Hydrated aluminum silicate; Clay; China clay; µ-[1,3-dioxodisiloxane-1,3-diolato(2-)-κO1: κO3](dioxo)dialuminum dihydrate; E 559; kaolin; China clay; aluminium silicate, hydrated; oxo-oxoalumanyloxy-[oxo (oxoalumanyloxy)silyl]oxysilane dihydrate; Clay (kaolin); KAOLIN DUST	1 - 5	1332-58-7
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene	1 - 5	100-41-4
copper oxide	copper(II) oxide; Copper oxide (CuO); Cupric oxide; copper(II) oxide containing by weight 78 % or more of copper and not more than 0,03 % of chloride; catalyst containing by weight of — 52 % (+/- 10 %) of cuprous oxide (CAS RN 1317-39-1), — 38 % (+/- 10 %) of cupric oxide (CAS RN 1317-38-0) and — 10 % (+/- 5 %) of metallic copper (CAS RN 7440-50-8); copper oxide; cupric oxide; oxocopper; Copper(II) oxide, nanoparticles; Copper oxide, nanoparticles (<50 nm); Copper oxide, black; Copper monoxide; C.I. 77403	0.5 - 1.5	1317-38-0

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# Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### **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 : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: Harmful 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

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

pain or irritation redness dryness cracking

blistering may occur

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

stomach pains

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

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### Section 4. First aid measures

Notes to physician

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

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO<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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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### Section 6. Accidental release measures

**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).

### 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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

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

**Special precautions** 

Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

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.

# 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.
xylene	ACGIH TLV (United States, 1/2024) [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018) [Xylenes] TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m³.
zineb (ISO)	None.
diiron trioxide	ACGIH TLV (United States, 1/2024)
dillon thousas	TWA 8 hours: 5 mg/m³. Form: Respirable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m³. Form: Total dust.
	TWA 8 hours: 5 mg/m³. Form: Respirable
	fraction.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 152 mg/m <sup>3</sup> .
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 300 mg/m <sup>3</sup> .
Zeolites	ACGIH TLV (United States, 1/2024)
	[Aluminum, metal and insoluble
	compounds]
	TWA 8 hours: 1 mg/m³. Form: Respirable
Kaalia	fraction.
Kaolin	ACGIH TLV (United States, 1/2024) TWA 8 hours: 2 mg/m³. Form: Respirable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m³. Form: Total dust.
	TWA 8 hours: 5 mg/m³. Form: Respirable
	fraction.

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# Section 8. Exposure controls/personal protection

ACGIH TLV (United States, 1/2024) ethylbenzene

Ototoxicant.

TWA 8 hours: 20 ppm.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m<sup>3</sup>.

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

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

Key to abbreviations

= Acceptable Maximum Peak S = Potential skin absorption SR

ACGIH = American Conference of Governmental Industrial Hygienists. = Respiratory sensitization = Ceiling Limit SS = Skin sensitization С

F STEL = Short term Exposure limit values **IPEL** = Internal Permissible Exposure Limit TD = Total dust

OSHA = Occupational Safety and Health Administration. TLV = Threshold Limit Value R = Respirable TWA = Time Weighted Average

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national quidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

copper oxide

: 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/face 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

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# Section 8. Exposure controls/personal protection

**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 antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

Appropriate footwear and any additional skin protection measures should be selected Other skin protection

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.

The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

### **Appearance**

**Physical state** : Liquid.

Color : Brownish-red. Odor : Characteristic. pН : Not applicable. **Melting point** : Not available. : >37.78°C (>100°F) **Boiling point** 

: Closed cup: 26°C (78.8°F) Flash point

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **Flammability** : Not available. Lower and upper explosive : Not available.

(flammable) limits

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

1.98 Relative density : 16.52 Density (lbs/gal)

> Result Media

Solubility(ies) cold water Not soluble

Partition coefficient: noctanol/water

: Not applicable.

**Viscosity** : Dynamic (room temperature): Not available.

> Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

% Solid. (w/w) : 84.698

**Particle characteristics** 

Median particle size : Not applicable.

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# 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 : Under normal conditions of storage and use, hazardous reactions will not occur. reactions

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

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

# **Section 11. Toxicological information**

# Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Dose
<b>d</b> ícopper 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	
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
zineb (ISO)	Rat - Oral - LD50	>2000 mg/kg
diiron trioxide	Rat - Oral - LD50	10 g/kg
	Rat - Inhalation - LC50 Dusts and	>5 mg/l [4 hours]
	mists	
2-methylpropan-1-ol	Rat - Oral - LD50	2830 mg/kg
	Rabbit - Dermal - LD50	2460 mg/kg
	Rat - Inhalation - LC50 Vapor	24.6 mg/l [4 hours]
Zeolites	Rat - Oral - LD50	>5 g/kg
Kaolin	Rat - Oral - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Dusts and	>5.07 mg/l [4 hours]
	mists	
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

**Product Conclusion** 

There are no data available on the mixture itself.

Skin corrosion/irritation

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# Section 11. Toxicological information

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** 

There are no data available on the mixture itself.

Serious eye damage/eye irritation

Conclusion/Summary : There are no data available on the mixture itself.

Respiratory corrosion/irritation

**Conclusion/Summary**: There are no data available on the mixture itself.

**Sensitization** 

Product/ingredient name	Species	Result
zíneb (ISO)	Guinea pig - skin	Result: Sensitizing

Skin

Ingredient name

✓ Summary

✓ neb (ISO)

Weakly positive.

Conclusion/Summary : There are no data available on the mixture itself.

Respiratory

**Conclusion/Summary**: There are no data available on the mixture itself.

**Mutagenicity** 

Conclusion/Summary : There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
<b>x</b> ylene	-	3	-
zineb (ISO)	-	3	-
diiron trioxide	-	3	-
Zeolites	-	3	-
ethylbenzene	-	2B	-

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

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

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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# **Section 11. Toxicological information**

Product/ingredient name	Result
xylene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
zineb (ISO)	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-methylpropan-1-ol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
	(hearing organs) - Category 2

**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, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea, stomach.

### **Aspiration hazard**

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

#### Potential acute health effects

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

Inhalation : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Harmful 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

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

pain or irritation redness dryness cracking

blistering may occur

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

stomach pains

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### **Product name SIGMA ECOFLEET 690 REDBROWN**

# **Section 11. Toxicological information**

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. 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** 

Potential delayed effects

effects

There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Long term exposure

**Potential immediate** 

effects

There are no data available on the mixture itself.

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

Potential chronic health effects

**Conclusion/Summary** : There are no data available on the mixture itself.

General : May cause damage to organs through prolonged or repeated exposure. Prolonged

or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

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

exposure.

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

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	(mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)

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### **Product name SIGMA ECOFLEET 690 REDBROWN**

# Section 11. Toxicological information

MCMV ECOLIEE	T 690 REDBROWN	10511	2502.0	NI/A	72.2	2.4	
	I 090 KEDDKOWN	1054.1	2502.8	N/A	12.2	3.4	
dicopper oxide		500	2500	N/A	N/A	3.34	
xylene		4300	1700	N/A	11	1.5	
zineb (ISO)		2500	N/A	N/A	N/A	N/A	
diiron trioxide		10000	N/A	N/A	N/A	N/A	
2-methylpropan-1-	ol	2830	2460	N/A	24.6	N/A	
ethylbenzene		3500	17800	N/A	17.8	1.5	
copper oxide		2500	N/A	N/A	N/A	N/A	

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species
<b>ø</b> icopper oxide	LC50	Fish
	0.003 mg/l [96 hours]	
diiron trioxide	Acute - EC50	Daphnia
	OECD 202	
	>100 mg/l [48 hours]	
2-methylpropan-1-ol	Acute - EC50	Daphnia
	1100 mg/l [48 hours]	
Zeolites	Acute - LC50	Fish
	>680 mg/l [96 hours]	
ethylbenzene	Acute - EC50 - Fresh water	Daphnia
	1.8 mg/l [48 hours]	
	Chronic - NOEC - Fresh water	Daphnia - Ceriodaphnia dubia
	1 mg/l	

Conclusion/Summary : Not available.

### Persistence and degradability

Product/ingredient name	Result
<b>e</b> thylbenzene	79% [10 days] - Readily

Conclusion/Summary : Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
kylene	3.12	7.4 to 18.5	Low
zineb (ISO)	1.3	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

**Mobility in soil** 

Soil/Water partition : N

coefficient

: Not available.

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Date of issue 13 August 2025 Version 4

Product code 000001181127

**Product name SIGMA ECOFLEET 690 REDBROWN** 

# 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 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# 14. Transport information

	DOT	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	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.
Product RQ (lbs)	1030.2	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** 

: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**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.

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### **Product name SIGMA ECOFLEET 690 REDBROWN**

# 14. Transport information

Transport in bulk according : Not applicable.

to IMO instruments

# Section 15. Regulatory information

### **United States**

United States inventory (TSCA 8b): At least one component is not listed.

TSCA 5(e) - Substances consent order:

vinyl neononanoate Listed

TSCA 5(a)2 - Final significant new use rules:

Mnyl neononanoate Listed 40 CFR 721.5310 (PMN P-92-0129)

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4

ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2

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

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

HNOC - Defatting irritant

### **Composition/information on ingredients**

Name	%	Classification
dicopper oxide	≥20 - ≤50	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE - Category 1
xylene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3 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
zineb (ISO)	≥5.0 - ≤10	COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-methylpropan-1-ol	≥1.0 - ≤4.4	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

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### **Product name SIGMA ECOFLEET 690 REDBROWN**

# Section 15. Regulatory information

•	ethylbenzene	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant	

#### **SARA 313**

	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: 🗹 copper oxide	1317-39-1	30 - 60
	xylene	1330-20-7	5 - 10
	zineb (ISO)	12122-67-7	5 - 10
	ethylbenzene	100-41-4	1 - 5
	copper oxide	1317-38-0	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

MARNING: Cancer - www.P65Warnings.ca.gov.

## **Section 16. Other information**

Please refer to Section 2 of this document for GHS hazard classifications. The customer is responsible for determining the PPE code for this material.

Date of previous issue : 6/12/2025

Organization that prepared : EHS

the SDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

**Disclaimer** 

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### **Product name SIGMA ECOFLEET 690 REDBROWN**

## **Section 16. Other information**

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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