SAFETY DATA SHEET



Date of issue/Date of revision16 December 2024Version 4

Section 1. Identification	
Product name	: SIGMA ECOFLEET 290 S BROWN
Product code	: 000001100837
Other means of identification	: 00249482
Product type	: Liquid.
Relevant identified uses of	f 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	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	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
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 9.4%
	(oral), 30.1% (dermal), 32.8% (inhalation)
GHS label elements	
Hazard pictograms	$\wedge \wedge \wedge \wedge$
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Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.
Precautionary statements	<u>S</u>
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing 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	: IF 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. Wash contaminated clothing 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	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: 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. Dried Film of This Paint May Be Harmful If Eaten or Chewed. 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. 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 290 S BROWN
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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
dícopper oxide	≥20 - ≤45	1317-39-1
rosin	≥10 - ≤16	8050-09-7
zinc oxide	≥5.0 - ≤10	1314-13-2
4-methylpentan-2-one	≥5.0 - ≤10	108-10-1
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤9.1	64742-95-6
Limestone	≥5.0 - ≤10	1317-65-3
zineb (ISO)	≥5.0 - ≤8.8	12122-67-7
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	≥1.0 - ≤5.0	25154-85-2
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	95-63-6
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
3-ethyltoluene	≥1.0 - ≤5.0	620-14-4
xylene	≤2.0	1330-20-7
Talc , not containing asbestiform fibres	≤1.7	14807-96-6
carbon black	≤1.0	1333-86-4
ethylbenzene	<1.0	100-41-4
lead monoxide	<0.10	1317-36-8

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 effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact Ingestion	 Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Harmful if swallowed.

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Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical 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	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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 halogenated compounds metal oxide/oxides oxides of lead

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Section 5. Fire-fighting measures

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, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for 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
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Section 7. Handling and storage

	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. Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed. 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.
Conditions for safe storage, including any incompatibilities	: 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
dícopper oxide	ACGIH TLV (United States, 7/2023) [copper
	fume]
	TWA 8 hours: 0.2 mg/m ³ . Form: Fume.
rosin	ACGIH TLV (United States, 7/2023) [resin
	acids] Skin sensitizer, Inhalation sensitizer.
	TWA 8 hours: 0.001 mg/m ³ (as total Resin
	acids). Form: Inhalable fraction.
zinc oxide	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 2 mg/m ³ . Form: Respirable
	fraction.
	STEL 15 minutes: 10 mg/m ³ . Form:
	Respirable fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m ³ . Form: Total dust.
	TWA 8 hours: 5 mg/m ³ . Form: Respirable
	fraction.
	TWA 8 hours: 5 mg/m ³ . Form: Fume.
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4-methylpentan-2-one	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 20 ppm.
	STEL 15 minutes: 75 ppm.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 410 mg/m ³ .
Solvent naphtha (petroleum), light aromatic	None.
Limestone	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m ³ . Form: Total dust.
	TWA 8 hours: 5 mg/m ³ . Form: Respirable
	fraction.
zineb (ISO)	None.
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	None.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 10 ppm.
diiron trioxide	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m ³ . Form: Respirable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m ³ . Form: Total dust.
	TWA 8 hours: 5 mg/m ³ . Form: Respirable
	fraction.
3-ethyltoluene	None.
xylene	ACGIH TLV (United States, 7/2023) [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/m ³ .
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 2 mg/m ³ . Form: Respirable
	fraction.
	OSHA PEL Z3 (United States)
	TWA: 2 mg/m³.
carbon black	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 3 mg/m ³ . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 3.5 mg/m ³ .
ethylbenzene	ACGIH TLV (United States, 7/2023)
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m ³ .
lead monoxide	ACGIH TLV (United States, 7/2023) [Lead
	and inorganic compounds]
	TWA 8 hours: 0.05 mg/m^3 (as Pb).
	OSHA PEL (United States)
	TWA: 50 μ g/m ³ .
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Section 8. Exposure controls/personal protection

· .	Key to abbreviations				
C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and R = Respirable	sakS= Potential skin absorptionGovernmental Industrial Hygienists.SR= Respiratory sensitizationSS= Skin sensitizationSS= Short term Exposure limit valuesDosure LimitTD= Total dustHealth Administration.TLV= Threshold Limit ValueTWA= Time Weighted Average0 Subpart Z - Toxic and Hazardous SubstancesF				
Recommended monitoring : Reference should be made to appropriate monitoring standards.					
Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaus other engineering controls to keep worker exposure to airborne contamina recommended or statutory limits. The engineering controls also need to k vapor or dust concentrations below any lower explosive limits. Use explosive 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 measur	es				
 Hygiene measures Wash hands, forearms and face thoroughly after handling chemical proceeding, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminated contaminated work clothing should not be allowed out of the workplace. contaminated clothing before reusing. Ensure that eyewash stations and 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 b worn at all times when handling chemical products if a risk assessment indicates this 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 differer 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 wo are exposed to concentrations above the exposure limit, they must use appropriate certified respirators. Use a properly fitted, air-purifying or air-fed respirator comply with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.	e,
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Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Brown.	
Odor	:	Characteristic.	
Odor threshold	1	Not available.	
рН	4	Not applicable.	
Melting point	4	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 31°C (87.8°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	:	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.68	
Density(lbs / gal)	:	14.02	
		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	1	Not applicable.	
Viscosity	:	Dynamic (room temperature Kinematic (room temperatu Kinematic (40°C (104°F)): >	re): Not available.
% Solid. (w/w)	;	75.188	

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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 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. 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 products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 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	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-
light aromatic				
•	LD50 Oral	Rat	8400 mg/kg	-
Limestone	LD50 Oral	Rat	6450 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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Section 11. Toxicological information

Product/ingredient name	Result			Species	Score	Exp	osure	Observation
xylene	Skin - Moderate irri		itant	tant Rabbit -		24 hours 500 mg		-
Conclusion/Summary								
Skin	: There ar	There are no data available on the mixture itself.						
Eyes	: There are no data available on the mixture itself.							
Respiratory	: There ar	e no data	a availab	le on the mixt	ure itself.			
Sensitization								
Product/ingredient name	Route of exposure)	Specie	S		Result		
zineb (ISO)	skin		Guinea	pig		Sensitizin	g	
Respiratory <u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary <u>Classification</u>				le on the mixt le on the mixt				
Product/ingredient name	OSHA	IARC	NTP)				
4-methylpentan-2-one	-	2B	-					
zineb (ISO)	-	3	-					
diiron trioxide	-	3	-					
xylene	-	3	-					
carbon black	-	2B	-					
ethylbenzene	-	2B	-					
Carcinogen Classification IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	4 e a human car	cinogen; F	Reasonabl	y anticipated to I	be a human o	carcinogen		
Reproductive toxicity								
	• There are	e no data	availahl	e on the mixtu	ıre itself			
<u>Feratogenicity</u>	. more are		availabi					
Gratogeniony								
Conclusion/Summary	 There are 	a no data	availabl	e on the mixtu	ira itealf			

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
4-methylpentan-2-one	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
zineb (ISO)	Category 3	-	Respiratory tract
			irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract
			irritation
xylene	Category 3	-	Respiratory tract
			irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract
			irritation

Specific target organ toxicity (repeated exposure)

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

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS). 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, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
3-ethyltoluene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

- otoritian acato mounti	
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/s</u>	<u>ymptoms</u>
Eve contact	· Adverse symptoms may include the following:

 Eye contact
 : Adverse symptoms may include the following: pain watering redness

 Inhalation
 : No specific data.

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Section 11. Toxicological information

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
Delayed and immediate effe	cts 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. 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	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
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 eff	iects
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	: No known significant effects or critical hazards.
Numerical measures of toxic	<u>sity</u>
Acute toxicity estimates	

Product name SIGMA ECOFLEET 290 S BROWN

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SIGMA ECOFLEET 290 S BROWN	1563.3	3199.5	N/A	64.2	3.9
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
Limestone	6450	N/A	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	C C	Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Limestone	Acute LC50 >56000 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4-methylpentan-2-one xylene ethylbenzene			- - -		Readily Readily Readily	

Bioaccumulative potential

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Product name SIGMA ECOFLEET 290 S BROWN

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
rosin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
3-ethyltoluene	3.98	-	Low
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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.
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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

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш		111
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
	1	1	United States Page: 15/18

14. Transport information

Product name SIGMA ECOFLEET 290 S BROWN

14. Transport information

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Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.	
Product RQ (lbs)	7881.6	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 \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaut	tions 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

Section 15. Regulatory information

United States

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

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
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	HNOC - Defatting irritant

Composition/information on ingredients

Product name SIGMA ECOFLEET 290 S BROWN

Section 15. Regulatory information

Name	%	Classification
dícopper oxide	≥20 - ≤45	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SERIOUS EYE DAMAGE - Category 1
rosin	≥10 - ≤16	COMBUSTIBLE DUSTS
		SKIN SENSITIZATION - Category 1B
4-methylpentan-2-one	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
+-methypentan-z-one	-0.010	ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
Solvent naphtha (petroleum),	≥5.0 - ≤9.1	FLAMMABLE LIQUIDS - Category 3
ight aromatic		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
zineb (ISO)	≥5.0 - ≤8.8	COMBUSTIBLE DUSTS
	20.0 - 20.0	SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE
		(Respiratory tract irritation) - Category 3
Propane, 1-(ethenyloxy)	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
2-methyl-, polymer with		EYE IRRITATION - Category 2A
chloroethene		
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORĞAN TOXICITY (SINGLE EXPOSURE
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
3-ethyltoluene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
	-1.00.0	ASPIRATION HAZARD - Category 1
wdono.	<2.0	HNOC - Defatting irritant
kylene	≤2.0	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
		ASPIRATIÓN HAZARD - Category 1
Talc , not containing asbestiform	≤1.7	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE
fibres		(Respiratory tract irritation) - Category 3
carbon black	≤1.0	COMBUSTIBLE DUSTS
	-1.0	CARCINOGENICITY - Category 2
thulbonzone	-10	
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		United States Page: 17/18
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Product name SIGMA ECOFLEET 290 S BROWN

Section 15. Regulatory information

EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
HNOC - Defatting irritant

SARA 313

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: dicopper oxide	1317-39-1	10 - 30
	zinc oxide	1314-13-2	5 - 10
	4-methylpentan-2-one	108-10-1	5 - 10
	zineb (ISO)	12122-67-7	3 - 7
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	xylene	1330-20-7	0.5 - 1.5
	ethylbenzene	100-41-4	0.1 - 1
	lead monoxide	1317-36-8	0.008827

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 and Reproductive Harm - 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 Organization that prepared the SDS	- 1	10/25/2024 EHS
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 = Internediate 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

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.