SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 12 April 2024 Version 3.01

Section 1. Identification	
Product name	: SIGMA ECOFLEET 290 S REDBROWN
Product code	: 000001100417
Other means of identification	: 00249481
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.
Supplier	 PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (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. Hazard identification

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 1B CARCINOGENICITY - Category 2 Health Hazards Not Otherwise Classified - Category 1
CUC label elemente	

GHS label elements

Canada Page: 1/20

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 2. Hazard identification

Hazard pictograms		
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. Prolonged or repeated contact may dry skin and cause irritation.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowe 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 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	S: t
Storage	Store locked up.	
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 Ma 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. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4.8% (oral), 26.1% (dermal), 28.5% (inhalation) 	9

Version 3.01

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMA ECOFLEET 290 S REDBROWN
Other means of identification	: 00249481

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
₫r̃copper 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; C.I. 77402; dicopper oxide; C.I. 77402; dicopper oxide; cuprous oxide; copper(1+) oxidocopper; Red copper oxide; Copper protoxide; Copper oxide, red	10 - 30*	1317-39-1
rosin	colophony; Disproportionated rosin; Gum rosin; Rosin core solder pyrolysis products; Rosin core solder; Rosin core solder thermal decomposition products; rosin-based solder flux; Rosin (wood); COLOPHONIUM; 3,4,5,6,7,8-Hexahydro- 2H-1-benzopyran-2-one; 1-Cyclohexene- 1-propanoic acid, 2-hydroxy-, d-lactone	7 - 13*	8050-09-7
zinc oxide	CI 77947; Zinc oxide fume; Zinc peroxide; Zinc, oxide Fume; ZINC OXIDE (ZNO); FLOWERS OF ZINC; zinc oxide, nanoparticles, uncoated; zinc oxide, nanoparticles, coated with [3- (methacryloxy)propyl] trimethoxysilane; C. I. Pigment White 4; Zinc monoxide; Zinc white	5 - 10*	1314-13-2
4-methylpentan-2-one	isobutyl methyl ketone; 2-Pentanone, 4-methyl-; METHYL ISOBUTYL KETONE; 4-Methyl-2-pentanone; Isopropyl acetone; Hexone (Methyl isobutyl ketone); Hexone; 4-Methyl 2-pentanone; MIBK; methyl isobutyl ketone; MIBK; isopropylacetone; MIK; methyl iso-butyl ketone; hexone; methyl 2-methylpropyl ketone; 4-methyl- 2-oxopentane	5 - 10*	108-10-1
Solvent naphtha (petroleum), light aromatic	Low boiling point naphtha - unspecified; Solvent naphtha (petroleum), light arom; Solvent naphtha, petroleum, light aromatic; Aromatic hydrocarbon solvents - medium flashpoint; Light aromatic solvent naphtha; Solvent naphtha, light aromatic; Solvent naphtha (petroleum), light aromatic; Light aromatic solvent naphtha (petroleum) (C8 to C10); Solvent naphtha, petroleum, light arom.; AROMATIC	3 - 7*	64742-95-6
		С	anada Page: 3/20

Version 3.01

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 3. Composition/information on ingredients

AROMATIC PETROLEUMLimestoneCalcium carbonate; Marble; calcite; MARBLE DUST; VALERITE; GROUND LIMESTONE; LIMESTONE FLOUR; LIMESTONE, GROUND; Agstone; CALCIUM CARBONATE (MARBLE)zineb (ISO)zinc ethylenebis (dithiocarbamate); zinc ethylenebis(dithiocarbamate) (polymeric) zineb; Z-78; Zinc, [[2-[(dithiocarboxy) amino]ethyl]carbamodithioato(2-)kappa S,.kappa.S']-; preparation containing zineb (ISO); zinc ethylenebisdithiocarbamate; zinc ethylenebisdithiocarbamate, polymeric; [[2-[(disulfanylmethyl)amino] ethylenebisdithiocarbamate, polymeric; [[2-[(disulfanylmethyl)amino]1,2,4-trimethylbenzeneBenzene, 1,2,4-trimethyl-; .pseudo Cumene; Pseudocumene; psi-Cumene; Asymmetrical trimethylbenzene; unsym Trimethylbenzene; Trialkyl(C1-4)benzene;	a. .e .)-;	1317-65-3 12122-67-7
MARBLE DUST; VALERITE; GROUND LIMESTONE; LIMESTONE FLOUR; LIMESTONE, GROUND; Agstone; CALCIUM CARBONATE (MARBLE)zineb (ISO)zinc ethylenebis (dithiocarbamate); zinc ethylenebis(dithiocarbamate) (polymeric; zineb; Z-78; Zinc, [[2-[(dithiocarboxy) amino]ethyl]carbamodithioato(2-)kappa S,.kappa.S']-; preparation containing zineb (ISO); zinc ethylenebisdithiocarbamate; zinc 	3 - 7*); a. ;;	
 ethylenebis(dithiocarbamate) (polymeric) zineb; Z-78; Zinc, [[2-[(dithiocarboxy) amino]ethyl]carbamodithioato(2-)kappa S,.kappa.S']-; preparation containing zineb (ISO); zinc ethylenebisdithiocarbamate; zinc ethylenebisdithiocarbamate, polymeric; [{2-[(disulfanylmethyl)amino] ethyl}carbamodithioato(3-)-ĸ2S,S']zincate (1-); Zinc, (ethylenebis(dithiocarbamato)) Carbamodithioic acid, 1,2-ethanediylbis- zinc complex 1,2,4-trimethylbenzene Benzene, 1,2,4-trimethyl-; .pseudo Cumene; Pseudocumene; psi-Cumene; Asymmetrical trimethylbenzene; insym 	;; a. ;;	12122-67-7
Cumene; Pseudocumene; psi-Cumene; Asymmetrical trimethylbenzene; hemimellitene; Trimethylbenzene; unsym	1 - 5*	
Tri-or tetramethylbenzene; 1,3,4-Trimethylbenzene	n-	95-63-6
diiron trioxide Iron oxide (Fe2O3); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxid anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	1 - 5* de,	1309-37-1
3-ethyltoluene m-Ethyltoluene; Benzene, 1-ethyl- 3-methyl-; Alkyl(C2-4) toluene; TOLUEN 3-ETHYL-; Methyl-3-ethylbenzene; 1-methyl-3-ethylbenzene; 1-ethyl- 3-methylbenzene	IE, 1 - 5*	620-14-4
xylene Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); xylene (total) Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture)		1330-20-7
Talc , not containing asbestiform fibresTalc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	0.5 - 1.5*	14807-96-6
ethylbenzene Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more	0.1 - 1* re	100-41-4
	_	anada Page: 4/2

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 3. Composition/information on ingredients

	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	
lead monoxide		1317-36-8

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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 syn	nptoms/effects, acute and delayed
Potential acute he	alth effects
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 sig</u>	ns/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 4. First-aid measures

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. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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.

Product name SIGMA ECOFLEET 290 S REDBROWN

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".	
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	entainment 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	

Precautions for safe handling

Section 7. Handling and storage

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.

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.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 7. Handling and storage

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
dicopper oxide	CA British Columbia Provincial (Canada,
	6/2022). [Copper Fume, as Cu]
	TWA: 0.2 mg/m³, (as Cu) 8 hours. Form:
	Fume
	CA Alberta Provincial (Canada, 6/2018).
	[Copper Fume]
	OEL: 0.2 mg/m ³ 8 hours. Form: Fume
	CA Quebec Provincial (Canada, 6/2022).
	[Copper, fume]
	TWAEV: 0.2 mg/m³, (as Cu) 8 hours. Form:
	fume
rosin	CA British Columbia Provincial (Canada,
	6/2022). Skin sensitizer. Inhalation
	sensitizer.
	CA Quebec Provincial (Canada, 6/2022).
	Skin sensitizer. Inhalation sensitizer.
zinc oxide	CA Alberta Provincial (Canada, 6/2018).
	OEL: 2 mg/m ³ 8 hours. Form: Respirable
	OEL: 10 mg/m ³ 15 minutes. Form:
	Respirable
	CA British Columbia Provincial (Canada,
	6/2022).
	STEL: 10 mg/m ³ 15 minutes. Form:
	Canada Page: 8/20

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 8. Exposure controls/personal protection

Section 6. Exposure controls/perso	
	Respirable TWA: 2 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). STEV: 10 mg/m ³ 15 minutes. Form: Respirable dust. TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust. CA Ontario Provincial (Canada, 6/2019). STEL: 10 mg/m ³ 15 minutes. Form: Respirable particulate matter. TWA: 2 mg/m ³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m ³ 15 minutes. Form: respirable dust and fume TWA: 2 mg/m ³ 8 hours. Form: respirable dust and fume
4-methylpentan-2-one	 CA Alberta Provincial (Canada, 6/2018). OEL: 307 mg/m³ 15 minutes. OEL: 75 ppm 15 minutes. OEL: 205 mg/m³ 8 hours. OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). STEV: 75 ppm 15 minutes. TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic Limestone	 None. CA British Columbia Provincial (Canada, 6/2022). TWA: 10 mg/m³ 8 hours. Form: Total dust STEL: 20 mg/m³ 15 minutes. TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). [Calcium carbonate] Skin sensitizer. OEL: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Limestone] STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 8. Exposure controls/personal protection

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zineb (ISO) 1,2,4-trimethylbenzene	None. CA Alberta Provincial (Canada, 6/2018). [Trimethyl benzene (mixed isomers)] OEL: 123 mg/m ³ 8 hours. OEL: 25 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Trimethyl benzene (mixture of isomers)] Skin sensitizer. Inhalation sensitizer. TWAEV: 25 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Trimethyl benzene mixed isomer] STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
diiron trioxide	 CA Alberta Provincial (Canada, 6/2018). OEL: 5 mg/m³, (as Fe) 8 hours. Form: Respirable CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Respirable particulate matter. CA British Columbia Provincial (Canada, 6/2022). TWA: 10 mg/m³ 8 hours. Form: Total dust CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 mg/m³, (as Fe) 8 hours. Form: dust and fume CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m³, (measured as Fe) 15 minutes. Form: dust and fume TWA: 5 mg/m³, (measured as Fe) 8 hours. Form: dust and fume
3-ethyltoluene xylene	None. CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] OEL: 651 mg/m ³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m ³ 8 hours. OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Xylene (o-,m-,p- isomers)] STEV: 651 mg/m ³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m ³ 8 hours. TWAEV: 100 ppm 8 hours.

Canada Page: 10/20

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 8. Exposure controls/personal protection

	CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	 CA British Columbia Provincial (Canada, 6/2022). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Ontario Provincial (Canada). TWA: 2 ppb Form: Respirable CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). OEL: 2 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m³ 8 hours. Form: respirable fraction
ethylbenzene	CA Alberta Provincial (Canada, 6/2018). OEL: 543 mg/m ³ 15 minutes. OEL: 125 ppm 15 minutes. OEL: 434 mg/m ³ 8 hours. OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
lead monoxide	CA Alberta Provincial (Canada, 6/2018). [Lead elemental & inorganic compounds as Pb] OEL: 0.05 mg/m ³ , (as Pb) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Lead - inorganic compounds as Pb] TWA: 0.05 mg/m ³ , (as Pb) 8 hours. CA Quebec Provincial (Canada, 6/2022). [Lead and inorganic compounds, dusts and fumes] TWAEV: 0.05 mg/m ³ , (as Pb) 8 hours.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 8. Exposure controls/personal protection

CA Ontario Provincial (Canada, 6/2019).
[Elemental lead, inorganic compounds of
lead as Pb]
TWA: 0.05 mg/m³, (as Pb) 8 hours.
CA Saskatchewan Provincial (Canada,
7/2013). [Lead and inorganic compounds
as Pb]
STEL: 0.15 mg/m³, (measured as Pb) 15
minutes.
TWA: 0.05 mg/m³, (measured as Pb) 8
hours.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 8. Exposure controls/personal protection

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	1	Brownish-red.	
Odor	1	Characteristic.	
Odor threshold	1	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 30°C (86°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	1	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.68	
Density(Ibs / gal)	:	14.02	
Solubility(ies)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)
Volatility	:	5 0% (v/v), 25.339% (w/w)	
% Solid. (w/w)	:	7 4.661	
Section 10 Stabili	t \/	and reactivity	

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.

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 10. Stability and reactivity

Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

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			00	
0	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	-
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	-

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

Irritation/Corrosion

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

Conclusion/Summary

Skin Eyes

- : There are no data available on the mixture itself.
- : There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitization

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 11. Toxicological information

Product/ingredient name	Route expos		Species		Result
zineb (ISO)	skin		Guinea p	big	Sensitizing
Skin	zineb (ISO) : Weakly positive.				
Respiratory	: The	re are no o	lata availal	ble on the mixture itsel	f.
Mutagenicity					
Conclusion/Summary	: The	re are no c	lata availal	ble on the mixture itsel	f.
Carcinogenicity					
Conclusion/Summary	: There are no data available on the mixture itself.				
Classification					
Product/ingredient name		OSHA	IARC	NTP	
₽ -methylpentan-2-one		-	2B	-	
zineb (ISO)		-	3	-	
diiron trioxide		-	3	-	
xylene ethylbenzene		-	3 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

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

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

Canada	Page: 15/20
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Product name SIGMA ECOFLEET 290 S REDBROWN

Section 11. Toxicological information

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

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.

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

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. 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 provide the damage.
	the liquid may cause irritation and reversible damage. Ingestion may cause nausea,

Canada Page: 16/20

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 11. Toxicological information

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.
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	ects
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 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)
GMA ECOFLEET 290 S REDBROWN	1563.8	3371.0	N/A	68.3	4.1
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

Version 3.01

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
Solvent naphtha (petroleum),	Acute LC50 8.2 mg/l	Fish	96 hours
light aromatic			001
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 -	83 % - Readily - 28 79 % - Readily - 10		-	-
Product/ingredient name	Aquatic half-life		Photolysis	s	Biodegradability
✓methylpentan-2-one xylene ethylbenzene	- - -		- -		Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ro sin	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 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

Canada Page: 18/20

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 13. Disposal considerations

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

Section 14. Transport information

	TDG	IMDG	ΙΑΤΑ
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.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(dicopper oxide)	(dicopper oxide)	Not applicable.

Additional inforr TDG IMDG IATA	 nation The marine pollutant mark is not required when transported by road or rail. The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaution	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 bull to IMO instrume	• • • • • • • • • • • • • • • • • • • •
Proof of classific statement	ation : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).

Date of issue 12 April 2024

Version 3.01

Product name SIGMA ECOFLEET 290 S REDBROWN

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: At least one component is not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 1

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.) Health 3 Flammability 3 Instability 1			
Date of issue/Date of revision	12 April 2024		
Organization that prepared the SDS	: 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 = International Air Transport Association IBC = 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.