SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 18 May 2021

Version 4

Date of issue 18 May 2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SIGMA ECOFLEET 290 REDBROWN
Product code	: 00243769
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses o	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
<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: Hazards identification

Classification of the substance or mixture	 AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.4% (oral), 8.4% (dermal), 18.9% (inhalation)

GHS label elements

Product name SIGMA ECOFLEET 290 REDBROWN

SECTION 2: Hazards identification

Hazard pictograms

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Signal word	:	Danger
Hazard statements	:	 F226 - Flammable liquid and vapor. H303 + H313 - May be harmful if swallowed or in contact with skin. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)
Precautionary statements		_
Prevention	:	 201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	:	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - 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	1	₱405 - Store locked up. ₱403 + ₱233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. 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. Emits toxic fumes when heated.
See toxicological information	n (\$	Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture
Product name

: Mixture : SIGMA ECOFLEET 290 REDBROWN

Other means of

identification

: Not applicable.

Ingredient name	%	CAS number	
dicopper oxide	≥20 - ≤46	1317-39-1	
xylene	≥10 - ≤14	1330-20-7	
rosin	≥10 - ≤18	8050-09-7	
zinc oxide	≥10 - ≤17	1314-13-2	
4-methylpentan-2-one	≥5.0 - ≤10	108-10-1	
diiron trioxide	≥1.0 - ≤5.0	1309-37-1	
diuron (ISO)	≥1.0 - ≤5.0	330-54-1	
ethylbenzene	≥0.10 - ≤2.6	100-41-4	
Talc, not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6	
copper oxide	≤1.4	1317-38-0	

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

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 healt	<u>n effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.

Over-exposure signs/symptoms

See toxicological information (Section 11)

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

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

SECTION 4: First aid measures

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.

SECTION 5: Firefighting 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 halogenated compounds 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".	
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

SECTION 6: Accidental release measures

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.
Conditions for safe storage, including any incompatibilities	:	Storage temperature: 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	None.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
rosin	ACGIH TLV (United States, 3/2020). Skin
	sensitizer. Inhalation sensitizer.
zinc oxide	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	fraction
	STEL: 10 mg/m ³ 15 minutes. Form:
	Respirable fraction
4-methylpentan-2-one	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 50 ppm 8 hours.
	STEL: 75 ppm 15 minutes.
diiron trioxide	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
diuron (ISO)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 10 mg/m ³ 8 hours.
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 20 ppm 8 hours.
Talc , not containing asbestiform fibres	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 2 mg/m ³ 15 minutes. Form:
	Respirable
copper oxide	None.

Key to abbreviations

STEL = Short term exposure limit

IPEL = Internal Permissible Exposure Limit

= Ceiling Limit

С

TLV = Threshold Limit Value

TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

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SECTION 8: Exposure controls/personal protection

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	1	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	1	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.
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	: Liquid.
Color	: Brownish-red.
Odor	: Aromatic.
Odor threshold	: Not available.
Molecular weight	: Not applicable.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 25°C (77°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.

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SECTION 9: Physical and chemical properties

Relative density	: 1.67
Density(lbs / gal)	: 13.94
Bulk Density (g/cm³)	: 1.425
Solubility	: Insoluble in the following materials: cold water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Mot applicable.
Viscosity	: K inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 47% (v/v), 22.531% (w/w)
% Solid. (w/w)	: 77.469

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 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	1340 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
diuron (ISO)	LD50 Dermal	Rat	>5 g/kg	-
			Mex	kico Page: 8

ECTION 11: Toxi	cologic	ai IIII	ormat	lion					
ethylbenzene	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral			 	Rat Rat Rabbit Rat		1 g/kg 17.8 mg/l 17.8 g/kg 3.5 g/kg		- 4 hours -
copper oxide	LD50 Oral				Rat	>2000 mg/k		mg/kg	-
Conclusion/Summary ritation/Corrosion	: There a	re no dat	a available	e on t	he mixtu	ire itsel	f.		
Product/ingredient name	Result	Result			ies	Score Ex		Exposure	Observatior
xylene	Skin - Moderate irritant			Rabbi	it	-		24 hours 50 mg	0 -
Conclusion/Summary									
Skin	: There a	re no dat	a availabl	e on t	he mixtu	ire itsel	f.		
Eyes	: There a	re no dat	a availabl	e on t	he mixtu	ire itsel	f.		
Respiratory	: There a	re no dat	a availabl	e on t	he mixtu	ire itsel	f.		
ensitization									
Conclusion/Summary									
Skin									
Respiratory	: There a								
lutagenicity				5 511 1			••		
	: There a	ro no dat		o on t	ho mivtu	uro itool	f		
Conclusion/Summary	. mere a	ie no dal	a available	eont			ι.		
arcinogenicity						., ,			
Conclusion/Summary <u>Classification</u>	: There a	re no dat	a available	e on t	he mixtu	ire itsel	t.		
Product/ingredient name	OSHA	IARC	NTP						
x ylene	-	3	-						
4-methylpentan-2-one	-	2B	-						
diiron trioxide ethylbenzene	-	3 2B	-						
-		20	-						
Carcinogen Classificatio IARC: 1, 2A, 2B, NTP: Known to OSHA: + Not listed/not re	3, 4 be a human ca	arcinogen;	Reasonably	y antici	pated to k	be a hum	an carcii	nogen	
eproductive toxicity									
Conclusion/Summary	: There a	re no dat	a available	e on t	he mixtu	ire itsel	f.		
eratogenicity									
Conclusion/Summary pecific target organ toxici	: There a ty (single example)			e on t	he mixtu	ire itsel	f.		
Name				Cate	gory		oute of xposur		arget organs
rylene				Cate	gory 3	-			espiratory tract itation
1-methylpentan-2-one				Cate	gory 3	-		R	espiratory tract
Talc , not containing asbestiform fibres				Cate	gory 3	-		R	itation espiratory tract itation
pecific target organ toxici	ty (repeated	d exposu	re)					•	

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Product code 00243769

SECTION 11: Toxicological information

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

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

Aspiration hazard

Name	Result
4-methylpentan-2-one	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 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. May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. Skin contact ÷. May cause an allergic skin reaction. Ingestion : May be 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 Delayed and immediate effects and also chronic effects from short and long term exposure : There are no data available on the mixture itself. Exposure to component solvent **Conclusion/Summary** 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

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SECTION 11: Toxicological information

short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

<u>Short 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.
<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 effe	
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)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMA ECOFLEET 290 REDBROWN	2586.2	3375.8	N/A	44.8	3.2
dicopper oxide	1340	2500	N/A	N/A	3.34
xylene	4300	1700	N/A	11	1.5
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	12.3	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
diuron (ISO)	1000	N/A	N/A	N/A	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	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 - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
diuron (ISO)	Acute EC50 0.031 mg/l	Algae	72 hours
	Acute EC50 0.022 mg/l	Algae	96 hours
	Acute EC50 0.018 mg/l	Aquatic plants	72 hours
		Mexico	Page: 11/1

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SECTION 12: Ecological information

	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 14.7 mg/l	Fish	96 hours
	Chronic NOEC 0.283 µg/I Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.56 mg/l	Daphnia	21 days
	Chronic NOEC 0.41 mg/l	Fish	28 days
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh	Fish	96 hours
	water		

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
-methylpentan-2-one	OECD 301F	83 % - Readily - 28	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
ylene 4-methylpentan-2-one ethylbenzene	- - -		- - -		Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
x ylene	3.12	7.4 to 18.5	low
rosin	1.9 to 7.7	-	high
4-methylpentan-2-one	1.9	-	low
diuron (ISO)	2.84	14.13	low
ethylbenzene	3.6	79.43	low

Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Product name SIGMA ECOFLEET 290 REDBROWN

SECTION 13: Disposal considerations

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

	Mexico Classification	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. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Mexico

IMDG

: None identified.

- : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
- **IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

SECTION 15: Regulatory information

<u>Mexico</u>								
Classification								
Flammability	:	3	Health	:	3	Reactivity	1	1
International regu	lati	<u>ons</u>						
Montreal Protoco	<u>ol</u>							
Not listed.								
Stockholm Conv	ent	tion o	n Persist	<u>ent</u>	Org	anic Pollutant	<u>s</u>	
Not listed.								

SECTION 15: Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

SECTION 16: Other information

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

Health : 3 * Flammability : 3 Physical hazards : 1

(*) - Chronic effects

enects

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. 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.

Date of previous issue	: 8/31/2018
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 = 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.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

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.