# SAFETY DATA SHEET



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

**Date of revision** 3 July 2024 Date of issue 3 July 2024

Version 12

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

**Product name** : SIGMA SAILADVANCE RX REDBROWN

**Product code** : 00371223 Other means of : Not applicable.

identification

**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Antifouling products

**Uses advised against** : Not applicable.

: PPG Industries, Inc. Manufacturer

> One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(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 : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4

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

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

4.6% (oral), 19.8% (dermal), 31.4% (inhalation)

**GHS** label elements

**Hazard pictograms** 









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#### Product name SIGMA SAILADVANCE RX REDBROWN

## **SECTION 2: Hazards identification**

Signal word

: Danger

**Hazard statements** 

: H226 - Flammable liquid and vapor.

H302 + H332 - Harmful if swallowed or if inhaled.

H313 - May be harmful in contact with skin.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

(hearing organs, lungs)

#### **Precautionary statements**

**Prevention** 

: P201 - 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.

P270 - Do not eat, drink or smoke when using this product.

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, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

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** 

: P405 - Store locked up.

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

result in classification

Other hazards which do not : 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 (Section 11)

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Product name SIGMA SAILADVANCE RX REDBROWN

## SECTION 3: Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: SIGMA SAILADVANCE RX REDBROWN

Other means of identification

: Not applicable.

Ingredient name	%	CAS number
dicopper oxide	≥20 - ≤47	1317-39-1
rosin	≥10 - ≤18	8050-09-7
zinc oxide	≥10 - ≤18	1314-13-2
4-methylpentan-2-one	≥5.0 - ≤10	108-10-1
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
diiron trioxide	≥5.0 - ≤10	1309-37-1
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	≥1.0 - ≤5.0	25154-85-2
zineb (ISO)	≥1.0 - ≤4.9	12122-67-7
1,2,4-trimethylbenzene	≥1.0 - ≤4.9	95-63-6
calcium carbonate	≥1.0 - ≤5.0	471-34-1
12-hydroxyoctadecanoic acid, reaction products with	≤1.7	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
ethylbenzene	≥1.0 - ≤3.2	100-41-4
cumene	<1.0	98-82-8

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 health effects

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

**Inhalation** : Harmful if inhaled.

**Skin contact**: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.

May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

#### **Over-exposure signs/symptoms**

See toxicological information (Section 11)

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### Product name SIGMA SAILADVANCE RX REDBROWN

## SECTION 4: First aid measures

#### 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.

**Specific treatments Protection of first-aiders**  : No specific treatment.

: 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

**Unsuitable extinguishing** media

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products : 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.

: Decomposition products may include the following materials:

: Use dry chemical, CO2, water spray (fog) or foam.

carbon oxides nitrogen oxides sulfur 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).

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### Product name SIGMA SAILADVANCE RX REDBROWN

## SECTION 6: Accidental release measures

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

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

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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.

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Product name SIGMA SAILADVANCE RX REDBROWN

# **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
₫icopper oxide	ACGIH TLV (United States, 7/2023). [copper fume]
rosin	TWA: 0.2 mg/m³ 8 hours. Form: Fume ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitizer. Inhalation sensitizer.
zinc oxide	TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable fraction NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 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.
Solvent naphtha (petroleum), light aromatic diiron trioxide	None.  NOM-010-STPS-2014 (Mexico, 4/2016).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene zineb (ISO)	None.
1,2,4-trimethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016). [Trimetil benceno, mezcla de Isómeros]
calcium carbonate	TWA: 25 ppm 8 hours.  ACGIH TLV (United States).  TWA: 3 mg/m³ Form: Respirable
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m³ Form: Total dust ACGIH TLV (United States). TWA: 10 mg/m³ Form: Inhalable particle TWA: 3 mg/m³, (inhalable dust) Form:
ethylbenzene	Respirable particle NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
cumene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.

Key to abbreviations

STEL = Ceiling Limit = Short term exposure limit = Internal Permissible Exposure Limit = Threshold Limit Value **IPEL** TLV TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : 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.

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Product name SIGMA SAILADVANCE RX REDBROWN

# SECTION 8: Exposure controls/personal protection

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Skin protection
Hand protection

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

: butyl rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# **SECTION 9: Physical and chemical properties**

#### **Appearance**

Physical state : Liquid.

Color : Brownish-red.

Odor : Characteristic.

Odor threshold : Not available.

Molecular weight : Not applicable.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 34°C (93.2°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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### Product name SIGMA SAILADVANCE RX REDBROWN

# **SECTION 9: Physical and chemical properties**

**Flammability** Lower and upper explosive

(flammable) limits

: Not available.

**Evaporation rate** Vapor pressure

: Not available. : Not available. : Not available.

**Relative density** Density (lbs/gal) : 1.67 **13**.94

Solubility(ies)

Vapor density

Media **Result** cold water Not soluble

Solubility in water Partition coefficient: n: Not available. : Not applicable.

octanol/water

**Viscosity** 

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Volatility

: 49% (v/v), 24.998% (w/w)

% Solid. (w/w)

**7**5.002

# **SECTION 10: Stability and reactivity**

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**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** 

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## Product name SIGMA SAILADVANCE RX REDBROWN

# **SECTION 11: Toxicological information**

Interpretation   Inte	Product/ingredient name	Result	Species	Dose	Exposure
LD50 Dermal   LD50 Oral   Rat   S00 mg/kg   - S000 mg/kg   - S00	dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
Cosin		LD50 Dermal	Rat		-
Cosin		LD50 Oral	Rat	500 mg/kg	-
zinc oxide  LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral  4-methylpentan-2-one  LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral Rat	rosin	LD50 Dermal	Rat		-
zinc oxide  LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral  4-methylpentan-2-one  LC50 Inhalation Vapor LD50 Dermal LD50 Oral  Rat Solvent naphtha (petroleum), light aromatic  LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Dermal LD50 Dermal LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral Rat		LD50 Oral	Rat	7600 mg/kg	-
LD50 Oral   Rat   >5000 mg/kg   -     4 hours     1 mg/l     4 hours     2.08 g/kg   -	zinc oxide	LC50 Inhalation Dusts and mists	Rat		4 hours
4-methylpentan-2-one  LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Oral Rat Rat Rabbit Rat Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat Rat Ra		LD50 Dermal	Rat	>2000 mg/kg	-
4-methylpentan-2-one  LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Oral Rat Rat Rat Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat Rat Ra		LD50 Oral	Rat	>5000 mg/kg	-
LD50 Dermal LD50 Oral Rat 2.08 g/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 2.08 g/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 8400 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 8400 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 8400 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 95 mg/l 4 hours  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic  LD50 Oral Rat 18000 mg/kg - Solvent naphtha (petroleum), light aromatic naphtha (petr	4-methylpentan-2-one	LC50 Inhalation Vapor	Rat		4 hours
Solvent naphtha (petroleum), light aromatic  LD50 Oral LD50 Dermal  LD50 Dermal  LD50 Dermal  Rat Rabbit  Rat Rabbit  3.48 g/kg  -  LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral Rat		LD50 Dermal	Rabbit	>5000 mg/kg	-
Solvent naphtha (petroleum), light aromatic   LD50 Dermal   LD50 Oral   LD50 Oral   Rat   8400 mg/kg   - 4 hours   LD50 Oral   Rat   10 g/kg   - 2000 mg/kg   - 2000 mg/k		LD50 Oral	Rat		-
light aromatic  LD50 Oral  LC50 Inhalation Dusts and mists  LD50 Oral  LD50 Oral  LD50 Oral  Rat  Rat  Rat  Rat  Rat  Rat  Rat  R	Solvent naphtha (petroleum),	LD50 Dermal	Rabbit		-
diiron trioxide  LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral Rat 10 g/kg - 2ineb (ISO) 1,2,4-trimethylbenzene LC50 Inhalation Vapor LD50 Oral LD50 Oral Rat LD50 Oral Rat 18000 mg/m³ 4 hours - 2ineb (ISO) 1,2,4-trimethylbenzene LD50 Oral LD50 Oral LD50 Oral Rat S g/kg - 2000 mg/kg - LD50 Dermal LD50 Oral Rat S g/kg - LD50 Oral Rat S g/kg - Rat S 2000 mg/kg - C50 Inhalation Dusts and mists Rat Rat Rat S 2000 mg/kg - Rat Rat S 2000 mg/kg - Rat Rat S 2000 mg/kg - Rat Rat Rat Rat S 2000 mg/kg - Rat Rat Rat Rat S 2000 mg/kg - Rat				0 0	
diiron trioxide  LC50 Inhalation Dusts and mists LD50 Oral  LD50 Oral  LD50 Oral  LD50 Oral  LC50 Inhalation Dusts and mists Rat Rat  Rat  10 g/kg  - 2000 mg/kg - 18000 mg/m³  4 hours  LD50 Oral  LD50 Oral  Rat  Calcium carbonate  LD50 Dermal  LD50 Oral  Rat  S g/kg  - 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine  LD50 Dermal  LD50 Dermal  Rat  S mg/l  4 hours  - 2000 mg/kg  - 4 hours  Rat  S g/kg  - CADON mg/kg  - A hours  Rat  Rat  S g/kg  - CADON mg/kg  - A hours		LD50 Oral	Rat	8400 mg/kg	-
LD50 Oral   Rat   10 g/kg   -	diiron trioxide	LC50 Inhalation Dusts and mists	Rat		4 hours
zineb (ISO) 1,2,4-trimethylbenzene LD50 Oral LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists Rat Rat Sound mg/kg - 2000 mg/kg - 4 hours - 2000 mg/kg - 2000 mg/kg - 4 hours - 3.56 mg/l 4 hours - 4 hours - 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine - LD50 Dermal - LD50 Dermal - Rat Sound mg/kg - 4 hours - 3.56 mg/l - 4 hours - 3.56 mg/l		LD50 Oral	Rat		-
1,2,4-trimethylbenzene       LC50 Inhalation Vapor LD50 Oral LD50 Oral LD50 Oral LD50 Dermal LD50 Dermal LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists       Rat Rat Sg/kg - 2000 mg/kg - 2000 mg/k	zineb (ISO)	LD50 Oral	Rat		_
LD50 Oral LD50 Dermal Rat S g/kg - 2000 mg/kg - LD50 Oral LD50 Oral Rat Rat S 2000 mg/kg - 6450 mg/kg - 6450 mg/kg - 2000		LC50 Inhalation Vapor	Rat		4 hours
LD50 Oral LC50 Inhalation Dusts and mists Rat Rat 3.56 mg/l 4 hours  12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine LD50 Dermal Rat 3.56 mg/l 4 hours  LD50 Dermal Rat 52000 mg/kg -		LD50 Oral	Rat		-
LD50 Oral LC50 Inhalation Dusts and mists Rat Rat 3.56 mg/l 4 hours  12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine LD50 Dermal Rat 3.56 mg/l 4 hours  LD50 Dermal Rat 52000 mg/kg -	calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine LD50 Dermal LC50 Inhalation Dusts and mists Rat 3.56 mg/l 4 hours 3.56 mg/l 4 hours 4 hours 2000 mg/kg -		LD50 Oral	Rat		-
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine LD50 Dermal Rat >2000 mg/kg -	12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat		4 hours
1,3-benzenedimethanamine and hexamethylenediamine LD50 Dermal Rat >2000 mg/kg -				· ·	
LD50 Dermal Rat >2000 mg/kg -					
	and hexamethylenediamine				
	_	LD50 Dermal	Rat	>2000 mg/kg	-
		LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene LC50 Inhalation Vapor Rat 17.8 mg/l 4 hours	ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
LD50 Dermal Rabbit 17.8 g/kg -			Rabbit	· ·	-
LD50 Oral Rat 3.5 g/kg -		LD50 Oral	Rat		-
cumene LC50 Inhalation Vapor Rat 39000 mg/m³ 4 hours	cumene	LC50 Inhalation Vapor	Rat		4 hours
LD50 Dermal Rabbit 12.3 g/kg -			Rabbit		-
LD50 Oral Rat 2260 mg/kg -		LD50 Oral	Rat		-

**Conclusion/Summary** 

Irritation/Corrosion

**Conclusion/Summary** 

Skin Eyes Respiratory : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

# <u>Sensitization</u>

3	Route of exposure	Species	Result
<b>z</b> ∕neb (ISO)	skin	Guinea pig	Sensitizing

**Conclusion/Summary** 

Skin : zineb (ISO): Weakly positive.

**Respiratory**: There are no data available on the mixture itself.

**Mutagenicity** 

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

**Carcinogenicity** 

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## Product name SIGMA SAILADVANCE RX REDBROWN

# **SECTION 11: Toxicological information**

Conclusion/Summary

: There are no data available on the mixture itself.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
	-	2B	-
diiron trioxide	-	3	-
zineb (ISO)	-	3	-
ethylbenzene	-	2B	-
cumene	-	2B	Reasonably anticipated to be a human carcinogen.

#### 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	-	Respiratory tract irritation
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
cumene	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs
ethylbenzene	Category 2	-	hearing organs
cumene	Category 2	-	-

### 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, upper respiratory tract, skin, ears, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
4-methylpentan-2-one	ASPIRATION HAZARD - Category 2
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

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### Product name SIGMA SAILADVANCE RX REDBROWN

## SECTION 11: Toxicological information

## Information on the likely routes of exposure

#### Potential acute health effects

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

Inhalation : Harmful if inhaled.

Skin contact : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.

May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

#### Over-exposure signs/symptoms

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

> pain watering redness

Inhalation : No specific data.

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

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. 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, fatique, 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** 

: There are no data available on the mixture itself.

effects

Potential delayed effects

There are no data available on the mixture itself.

**Long term exposure** 

**Potential immediate** 

: There are no data available on the mixture itself.

effects

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

Potential chronic health effects

General : 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 : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

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## Product name SIGMA SAILADVANCE RX REDBROWN

# **SECTION 11: Toxicological information**

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 SAILADVANCE RX REDBROWN	1547.4	3291.7	N/A	63.0	3.8
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
diiron trioxide	10000	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
calcium carbonate	6450	2500	N/A	N/A	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
ethylbenzene	3500	17800	N/A	17.8	1.5
cumene	2260	12300	N/A	39	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 - <i>Daphnia magna</i> - 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
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
calcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
·	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-

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## Product name SIGMA SAILADVANCE RX REDBROWN

## **SECTION 12: Ecological information**

## Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
12-hydroxyoctadecanoic	OECD 301D	9 % - Not readily - 29 days	-	-
acid, reaction products with	Ready	-		
1,3-benzenedimethanamine	Biodegradability -			
and hexamethylenediamine	Closed Bottle			
,	Test			
ethylbenzene	-	79 % - Readily - 10 days	-	-
Product/ingredient name	Aquatic half-life	Photoly	rsis	Biodegradability
4 11 1 2				- ···

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
4-methylpentan-2-one	-		Readily
ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>s</b> in	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
12-hydroxyoctadecanoic	>6	-	High
acid, reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			
ethylbenzene	3.6	79.43	Low
cumene	3.55	35.48	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

#### 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 non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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Product name SIGMA SAILADVANCE RX 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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

**Mexico** : None identified.

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

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

regulations.

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

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

the event of an accident or spillage.

Transport in bulk according: Not applicable.

to IMO instruments

# **SECTION 15: Regulatory information**

#### **Mexico**

Classification

Flammability: 3 Health: 3 Reactivity: 1

#### International regulations

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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## Product name SIGMA SAILADVANCE RX REDBROWN

## **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

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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 : 10/30/2023

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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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

Indicates information that has changed from previously issued version.

#### **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.

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