### SAFETY DATA SHEET

#### SIGMA SAILADVANCE GX BROWN



Date of issue 27 February 2023

**Version 3** 

### 1. Product and company identification

Product name : SIGMA SAILADVANCE GX BROWN

Product code : 00445164
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; Coating.

**Uses advised against** : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone** 

number

: 078 574 2777

### 2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 3

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

EYE IRRITATION - Category 2A

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 1

**GHS label elements** 

Hazard pictograms









Signal word : Danger

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#### 2. Hazards identification

#### **Hazard statements**

: Fammable liquid and vapor.

Harmful if swallowed or if inhaled.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to organs. (central nervous system (CNS), kidneys, liver,

respiratory organs, systemic, whole body)

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

nervous system (CNS), nervous system, respiratory organs)

Very toxic to aquatic life with long lasting effects.

#### **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. Wear respiratory 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 release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

#### Response

: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. 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. If eye irritation persists: Get medical advice or attention.

# Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

# Other hazards which do not result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

### 3. Composition/information on ingredients

Substance/mixture : Mixture

#### **CAS** number/other identifiers

**CAS number** : Not applicable. **CSCL number** : Not available.

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### 3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
dicopper oxide	25 - <50	1317-39-1	1-297
Rosin	10 - <12.5	8050-09-7	7-935
Zinc N,N'-ethylenebis(dithiocarbamate)	7 - <10	12122-67-7	2-1841
methyl isobutyl ketone	7 - <10	108-10-1	2-542
Zinc oxide	5 - <7	1314-13-2	1-561
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6	Not available.
Xylene	3 - <5	1330-20-7	3-3; 3-60
Diiron trioxide	3 - <5	1309-37-1	1-357; 5-5188
1,2,4-Trimethylbenzene	2 - <3	95-63-6	3-3427; 3-7
Talc containing no asbestos or quartz	1 - <2	14807-96-6	Not available.
copper(II) oxide	1 - <2	1317-38-0	1-297
carbon black	1 - <2	1333-86-4	5-3328; 5-5222
Copper	0.5 - <1	7440-50-8	Not available.
Oils, pine	0.5 - <1	8002-09-3	Not available.
ethyl benzene	0.5 - <1	100-41-4	3-28; 3-60
Reaction products of 12-hydroxyoctadecanoic	0.5 - <1	911674-82-3	Not available.
acid and octadecanoic acid and			
1,3-phenylenedimethanamine			
Terpinolene	0.1 - <0.2	586-62-9	3-2226; 3-2228

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.

SUB codes represent substances without registered CAS Numbers.

### 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 irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy

or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**: Causes damage to organs following a single exposure in contact with skin.

Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion : Harmful if swallowed. Causes damage to organs following a single exposure if

swallowed. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

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### 4. First aid measures

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

pain or irritation

watering redness

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

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

#### 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** 

: 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)

### 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. 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. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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### 5. Fire-fighting measures

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

**Special protective actions** for fire-fighters

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

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

### 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. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 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 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.

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### 7. Handling and storage

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

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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. Avoid release to the environment. 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.

Conditions for safe storage: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
dicopper oxide	Japan Society for Occupational Health
	(Japan, 9/2021). [Copper and compounds] Skin sensitizer.
Rosin	Japan Society for Occupational Health
	(Japan, 9/2021). Skin sensitizer.
	Inhalation sensitizer.
methyl isobutyl ketone	Japan Society for Occupational Health
	(Japan, 9/2021).
	OEL-M: 205 mg/m <sup>3</sup> 8 hours.
	OEL-M: 50 ppm 8 hours.
	Industrial Safety and Health Act (Japan,
	6/2020).
	TWA: 20 ppm 8 hours.
Zinc oxide	Japan Society for Occupational Health
	(Japan, 9/2021). [Class 2 dusts (Dusts
	containing less than 3% free silica,
	Bakelite, Carbon black, Coal, Cork dust,
	Cotton dust, Iron oxide, Grain dust, Joss
	stick material dust, Marble, Portland
	cement, Titanium oxide, Wood dust, Zinc
	oxide)]
	OEL-M: 1 mg/m³ 8 hours. Form: Respirable
	dust (Class 2 Dust)
	OEL-M: 4 mg/m³ 8 hours. Form: Total dust
	(Class 2 Dust)

### 8. Exposure controls/personal protection

Xvlene Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. **Japan Society for Occupational Health** (Japan, 9/2021). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m<sup>3</sup> 8 hours. Diiron trioxide **Japan Society for Occupational Health** (Japan, 9/2021). [Class 2 dusts (Dusts containing less than 3% free silica, Bakelite, Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Titanium oxide, Wood dust, Zinc oxide)1 OEL-M: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust (Class 2 Dust) OEL-M: 4 mg/m<sup>3</sup> 8 hours. Form: Total dust (Class 2 Dust) Japan Society for Occupational Health 1,2,4-Trimethylbenzene (Japan, 9/2021). OEL-M: 120 mg/m<sup>3</sup> 8 hours. OEL-M: 25 ppm 8 hours. Japan Society for Occupational Health Talc containing no asbestos or quartz (Japan, 9/2021). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)] OEL-M: 0.5 mg/m<sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m<sup>3</sup> 8 hours. Form: Total dust (Class 1 Dust) copper(II) oxide **Japan Society for Occupational Health** (Japan, 9/2021). [Copper and compounds] Skin sensitizer. Copper Japan Society for Occupational Health (Japan, 9/2021). [Copper and compounds] Skin sensitizer. ethyl benzene **Japan Society for Occupational Health** (Japan, 9/2021). Absorbed through skin. OEL-M: 87 mg/m<sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.

# 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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### 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 protection Skin protection

: Chemical splash goggles and face shield.

**Hand protection** 

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

**Gloves** 

: butyl rubber

**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.

### 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid.
Color : Brown.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 28°C (82.4°F)

Relative density : 1.74

Solubility(ies) : Media Result

old water Not soluble

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### 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.

**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 metal oxide/oxides

### 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 N,N'-ethylenebis	LD50 Oral	Rat	>2000 mg/kg	-
(dithiocarbamate)				
methyl isobutyl ketone	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Zinc oxide	LC50 Inhalation Dusts and mists		>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	_
light aromatic			James gring	
	LD50 Oral	Rat	8400 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
	LD50 Oral	Rat	4.3 g/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
_ ·,=, · · · · · · · · · <b>,</b> · · · · · · = · · · <b>,</b>	LD50 Oral	Rat	5 g/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	_
Copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
Oils, pine	LD50 Dermal	Rabbit	5 g/kg	-
, p	LD50 Oral	Rat	2.1 g/kg	-
ethyl benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
Sany: 56:126:16	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
Reaction products of	LC50 Inhalation Dusts and mists		>5.08 mg/l	4 hours
12-hydroxyoctadecanoic			2100g,.	
acid and octadecanoic acid				
and				
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## 11. Toxicological information

1,3-phenylenedimethanamine				
Terpinolene	LD50 Oral	Rat	4390 mg/kg	-

#### **Irritation/Corrosion**

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

#### **Sensitization**

• • • • • • • • • • • • • • • • • • • •	Route of exposure	Species	Result
Zinc N,N'-ethylenebis (dithiocarbamate)	skin	Guinea pig	Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
dicopper oxide	Category 1	-	whole body
	Category 3		Respiratory tract irritation
Zinc N,N'-ethylenebis(dithiocarbamate)	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
methyl isobutyl ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Zinc oxide	Category 1	-	respiratory organs, systemic
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Diiron trioxide	Category 1	-	respiratory organs
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
copper(II) oxide	Category 1	-	systemic
	Category 3		Respiratory tract irritation
Copper	Category 1	-	digestive organs
	Category 3		Respiratory tract irritation
ethyl benzene	Category 3	-	Respiratory tract

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### 11. Toxicological information

	irritation
Category 3	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Zinc N,N'-ethylenebis(dithiocarbamate)	Category 1	-	respiratory organs
methyl isobutyl ketone	Category 1	-	central nervous system (CNS)
Xylene	Category 1	-	nervous system, respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
1,2,4-Trimethylbenzene	Category 2	-	central nervous system (CNS), lungs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
carbon black	Category 1	-	respiratory organs
ethyl benzene	Category 2	-	hearing organs

#### **Aspiration hazard**

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Oils, pine	ASPIRATION HAZARD - Category 1
ethyl benzene	ASPIRATION HAZARD - Category 1
Terpinolene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Marmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy

or asthma symptoms or breathing difficulties if inhaled.

Skin contact

: Causes damage to organs following a single exposure in contact with skin.

Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion

: Marmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

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

pain or irritation watering redness

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

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo

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**Product name SIGMA SAILADVANCE GX BROWN** 

### 11. Toxicological information

unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

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

exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

#### **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 GX BROWN	1394.4	29546.6	N/A	28.9	2.7
dicopper oxide	500	2500	N/A	N/A	3.34
Rosin	7600	2500	N/A	N/A	1.5
Zinc N,N'-ethylenebis(dithiocarbamate)	2500	N/A	N/A	N/A	0.5
methyl isobutyl ketone	2080	N/A	N/A	3	N/A
Zinc oxide	N/A	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
copper(II) oxide	2500	N/A	N/A	N/A	N/A
Oils, pine	2100	5000	N/A	N/A	N/A

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### 11. Toxicological information

ethyl benzene	3500	17800	N/A	17.8	N/A
Terpinolene	4390	N/A	N/A	N/A	N/A

#### Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

### 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
methyl isobutyl ketone	Acute LC50 >179 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
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Copper	Acute LC50 810 ppb	Fish	96 hours
ethyl benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
•	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Reaction products of 12-hydroxyoctadecanoic	Acute LC50 >100 mg/l	Fish	96 hours
acid and octadecanoic acid and			
1,3-phenylenedimethanamine			

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
methyl isobutyl ketone ethyl benzene	OECD 301F -	83 % - Readily - 28 days 79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
methyl isobutyl ketone Xylene ethyl benzene	-	-	Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Rosin	1.9 to 7.7	-	high
Zinc N,N'-ethylenebis (dithiocarbamate)	1.3	-	low
methyl isobutyl ketone	1.9	-	low
Xylene	3.12	7.4 to 18.5	low
1,2,4-Trimethylbenzene	3.63	120.23	low
ethyl benzene	3.6	79.43	low
Terpinolene	4.47	-	high

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### 12. Ecological information

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Other adverse effects: No known significant effects or critical hazards.

### 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.

### 14. Transport information

	UN	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, zinc oxide)	Not applicable.

#### Additional information

UN : 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.

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### 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

### 15. Regulatory information

#### **Fire Service Law**

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%		Reference number
Xylene	≤10	Class 1	80
1,2,4-Trimethylbenzene	≤10	Class 1	296

#### **Industrial Safety and Health Act**

#### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

Ingredient name	%		Reference number
Methyl isobutyl ketone	≤10	Special Organic Solvents	33-2

#### Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
copper and its compounds	≥30 - ≤40	Listed	379
Rosin	≥10 - ≤20	Listed	632
Methyl isobutyl ketone	≤10	Listed	569
Zinc oxide	≤10	Listed	188
Petroleum naphtha	≤10	Listed	330
Xylene	≤10	Listed	136
Trimethylbenzene	≤10	Listed	404
Iron oxide	≤10	Listed	192
Carbon black	≤10	Listed	130
Ethylbenzene	≤10	Listed	70

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Copper and its compounds	≥30 - ≤40	Listed	379
Rosin	≥10 - ≤20	Listed	632
Methyl isobutyl ketone	≤10	Listed	569
Zinc oxide	≤10	Listed	188
Petroleum naphtha	≤10	Listed	330
Xylene	≤10	Listed	136
Trimethylbenzene	≤10	Listed	404
Iron oxide	≤10	Listed	192
Carbon black	≤10	Listed	130
Ethylbenzene	≤10	Listed	70

#### Carcinogen

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#### **Product name SIGMA SAILADVANCE GX BROWN**

### 15. Regulatory information

Ingredient name	%		Reference number
methyl isobutyl ketone ethylbenzene	≤10 ≤10	Listed Listed	-

#### **Mutagen**

None of the components are listed.

: Not listed **Corrosive liquid** 

**Occupational Safety and** 

**Health Law** 

: Inflammable, Combustible

Regulations on the **Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed

**Harmful Substances Subject to Obtaining** 

**Permission for** Manufacturing

: Not listed

Harmful Substances,

: Not listed

**Prohibited for Manufacturing** 

**ISHL Enforcement Order** 

**Appendix 1 - Dangerous** 

**Substances** 

: Inflammable, Combustible

Lead regulation : Not listed **Organic solvents** : Not applicable.

poisoning prevention

#### **Poisonous and Deleterious Substances**

None of the components are listed.

#### **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
Methyl isobutyl ketone	8.975	Priority assessment	116
Xylene	3.5761	Priority assessment	125
1,2,4-Trimethylbenzene	2.5608	Priority assessment	49
Ethylbenzene	0.64658	Priority assessment	50
1,3,5-Trimethylbenzene	0.4268	Priority assessment	201
Cumene	0.08536	Priority assessment	126
Toluene	0.02464	Priority assessment	46
Benzene	0.0082863	Priority assessment	45
Naphthalene	0.0076824	Priority assessment	76
2,2,4,4,6,6,8,8-Octamethyl-	0.000009999	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane			
2,2,4,4,6,6,8,8,10,10,12,12-Dodecamethyl-	0.000009999	Monitoring	41
1,3,5,7,9,11-hexaoxa-2,4,6,8,10,12-hexasilacyclododecane			
1,3-Butadiene	0.000000785	Priority assessment	4

**High Pressure Gas Control** : Not available.

Law

#### **Explosives Control Law**

None of the components are listed.

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### 15. Regulatory information

Law concerning prevention: Not available. of pollution of the ocean

#### **Maritime Safety Law**

#### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### Container class

None of the components are listed.

**JSOH Carcinogen** : Group 1 **List of Specially Controlled** 

**Industrial Waste** 

: Not listed

Japan inventory

: At least one component is not listed.

**Road law** : Not available.

#### 16. Other information

#### **History**

Date of issue/Date of

revision

: 27 February 2023

**Date of previous issue** 

: 1/19/2022

**Version** 

: 3

Prepared by

: EHS

Key to abbreviations

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association 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)

RID = The Regulations concerning the International Carriage of Dangerous Goods

bv Rail

**UN = United Nations** 

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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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