# SAFETY DATA SHEET

Date of issue/Date of revision 19 August 2023

**Version 8** 



### **Section 1. Identification**

**Product code** : 40048-C4150/20L

Product identifier : SIGMARINE 48 GREEN 4150

#### Recommended use and restrictions

Use of the substance/

mixture

: Coating.

**Uses advised against** 

: Not applicable.

Supplier's details

: PPG Industries Australia Pty Limited

(ABN 82 055 500 939) 14-20 McNaughton Rd CLAYTON Victoria 3168

Tel: (03) 9263 6000 Fax: (03) 9263 6970

**Emergency telephone** 

number

: Australia 1800 883 254 / New Zealand 0800 000 096 For international shipping emergencies: 1-412-391-1618

### Section 2. Hazard(s) identification

Classification of the substance or mixture

FLAMMABLE LIQUIDS - Category 3
 SKIN SENSITISATION - Category 1
 CARCINOGENICITY - Category 1
 REPRODUCTIVE TOXICITY - Category 1

### **GHS label elements**

Hazard pictograms







Signal word : DANGER

Hazard statements : Flammable liquid and vapour.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

### **Precautionary statements**

**Prevention** 

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapour.

Response

: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Storage

: Not applicable.

**Disposal** 

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

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### Section 2. Hazard(s) identification

Supplemental label

elements

Not applicable.

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

result in classification

# Section 3. Composition and ingredient information

Substance/mixture : Mixture

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

**CAS** number : Not applicable. **EC** number : Mixture.

Ingredient name	CAS number	% (w/w)
₹-ethylhexanoic acid, zirconium salt	22464-99-9	1 - <10
cobalt bis(2-ethylhexanoate)	136-52-7	<1

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 or have an OEL 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.

### Section 4. First aid measures

#### Description of necessary first aid measures

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the **Eye contact** 

eyelids apart for at least 10 minutes and seek immediate medical advice.

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 recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eve contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

Inhalation : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

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### Section 4. First aid measures

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

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

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

reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing media

meuia

Specific hazards arising from the chemical

Hazardous thermal

decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

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

: Do not use water jet.

: Flammable liquid and vapour. 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: carbon oxides

metal oxide/oxides

: 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.

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

Hazchem code : •3Y

# 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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# Section 6. Accidental release measures

For emergency responders: If specialised 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 spilt 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 material 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 the 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 spilt 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. 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 ingest. Avoid breathing vapour or mist. 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.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

### 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.

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# Section 7. Handling and storage

including any incompatibilities

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls and personal protection

**Control parameters** 

Occupational exposure limits

None

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

For products that are sprayed, where practicable use a spray booth designed and maintained in accordance with AS/ NZS 4114.

**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** 

: Safety glasses with side shields.

: 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 Body protection**  : butyl rubber

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

discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

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

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# Section 8. Exposure controls and personal protection

**Respiratory protection** Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. If 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.

**Restrictions on use** : Not applicable.

References: Eye protectors should conform to AS/NZS 1336 and AS/NZS 1337. Chemical-resistant gloves should conform to AS/NZS 2161.1. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716. Occupational footwear should conform to AS/NZS 2210.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Green. **Odour** Aromatic. **Odour threshold** : Not available. Ha : Not applicable. **Melting point** : Not available. : >37.78°C (>100°F) **Boiling point** 

Flash point : Closed cup: 38.5°C (101.3°F)

**Evaporation rate** : Not available. Flammability (solid, gas) Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapour pressure : Not available. Vapour density : Not available.

Relative density : 1.05 1.103 Bulk Density (g/cm³)

Media Result Solubility(ies)

cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

: Not available. Auto-ignition temperature : Not available. **Decomposition temperature Viscosity** : Not Applicable

# 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.

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### Section 10. Stability and reactivity

**Conditions to avoid** : Stable under recommended storage and handling conditions (see Section 7). When exposed to high temperatures may produce hazardous decomposition products.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

Hazardous decomposition products

 Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

# **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>∠</b> ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	>5 g/kg >5 g/kg 3129 mg/kg	-  -  -

: There are no data available on the mixture itself.

**Conclusion/Summary** 

**Irritation/Corrosion** 

Not available.

**Conclusion/Summary** 

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

**Sensitisation** 

Not available.

**Conclusion/Summary** 

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

**Mutagenicity** 

Not available.

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

**Carcinogenicity** 

Not available.

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

Reproductive toxicity

Not available.

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

**Teratogenicity** 

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

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# **Section 11. Toxicological information**

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
cobalt bis(2-ethylhexanoate)	Category 2	inhalation	-

#### **Aspiration hazard**

Not available.

**Information on likely routes**: Not available.

of exposure

Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

: May cause an allergic skin reaction. Skin contact

: No known significant effects or critical hazards. Ingestion

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

**Eye contact** : No specific data.

: Adverse symptoms may include the following: Inhalation

> reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Conclusion/Summary** 

: There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapour 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

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# Section 11. Toxicological information

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

**Short term exposure** 

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

**Long term exposure** 

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

Potential chronic health effects

Not available.

**General** : 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.

Reproductive toxicity : May damage fertility or the unborn child.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)		,	(vapours)	Inhalation (dusts and mists) (mg/l)
balt bis(2-ethylhexanoate)	3129	N/A	N/A	N/A	N/A

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>2</b> -ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

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# Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and

# **Section 14. Transport information**

	ADG	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class	3	3	3
(es)	<b>A</b>	(A) (1)	
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.	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

#### Additional information

: None identified. **ADG** 

**Hazchem code** : •3Y

**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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# **Section 14. Transport information**

Transport in bulk according : Not applicable.

to IMO instruments

# Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

SUSMP : Not scheduled

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	Schedule
bobalt bis(2-ethylhexanoate)	Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 0.1% as cobalt]

Australia inventory (AIIC) : All components are listed or exempted.

New Zealand (NZIoC) : All components are listed or exempted.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

# Section 16. Any other relevant information

**History** 

Date of issue/Date of

revision

: 19 August 2023

Date of previous issue

: 6/15/2022

Prepared by

: EHS

**Key to abbreviations** 

: ADG = Australian Dangerous Goods 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)
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

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# Section 16. Any other relevant information

**References** : Not available.

**▼** 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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