SAFETY DATA SHEET

Date of issue : 8 November 2021 : 9

Version

Section 1. Identification

Product code	: 40048-C3149/20L
Product name	: SIGMARINE 48 ORANGE 3149
Product type	: Liquid.
Recommended use and res	trictions
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: PPG INDUSTRIES NEW ZEALAND LTD 5 MONAHAN ROAD, MT WELLINGTON, AUCKLAND www.ppgnz.co.nz Telephone Numbers: 09 573 1620, 0800 659378 021 940 920 (24 Hours)
Emergency telephone number (with hours of operation)	 New Zealand 0800 000 096 (24 hours) / Australia 1800 883 254 (24 hours) For international shipping emergencies: 1-412-391-1618
e-mail address of person responsible for this SDS	: ehsnz@ppg.com

Section 2. Hazards identification

HSNO Classification	: AMMABLE LIQUIDS - Category 3 SKIN SENSITISATION - Category 1 REPRODUCTIVE TOXICITY - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Symbol	
GHS label elements	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapour. May cause an allergic skin reaction. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects. Prolonged or repeated contact may dry skin and cause irritation.
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. Avoid release to the environment. Avoid breathing vapour.
	New Zealand Page: 1/11



Page: 1/11 New Zealand

Section 2. Hazards identification

Response	:	Collect spillage. 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	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and has been classified according to the Hazardous Substances (Classifications) Notice 2017.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Land Transport Rule: Dangerous Goods 2005.

Section 3. Composition/information on ingredients

Mixture

Substance/mixture		
CAS number/other identifiers		

Product code : 40048-C3149/20L

Hazardous ingredients	%	CAS number
Aphtha (petroleum), hydrodesulfurized heavy	30 - 60	64742-82-1
calcium carbonate	1 - <10	471-34-1
2-ethylhexanoic acid, zirconium salt	1 - <10	22464-99-9
xylene	<1	1330-20-7
cobalt bis(2-ethylhexanoate)	<1	136-52-7

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.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the 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 sympt	toms/effects, acute and delayed
Potential acute healt	<u>h effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

New Zealand Page: 2/11

Section 4. First aid measures

<u>Over-exposure signs/sym</u>			
Eyes	: No specific data.		
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations		
Skin	: Adverse symptoms may include the following: irritation redness dryness cracking 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			
Specific treatments	: Not available.		
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.		
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	on (Section 11)		

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media		
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.	
Not suitable	Do not use water jet.	
Specific hazards arising from the chemical	Ammable liquid and vapour. Runoff to sewer may create fire or explosion In a fire or if heated, a pressure increase will occur and the container may b the risk of a subsequent explosion. This material is toxic to aquatic life with lasting effects. Fire water contaminated with this material must be containe prevented from being discharged to any waterway, sewer or drain.	ourst, with long
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides	
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the ir there is a fire. No action shall be taken involving any personal risk or withou suitable training. Move containers from fire area if this can be done without Use water spray to keep fire-exposed containers cool.	ut
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contain breathing apparatus (SCBA) with a full face-piece operated in positive press mode.	

New Zealand Page: 3/11

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	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	:	Woid 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and material for con	ta	inment 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 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	Fut 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. 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, 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 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.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name		Exposure limite
_		Exposure limits
✔alcium carbonate2-ethylhexanoic acid, zirconium salt		 NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 10 mg/m³ 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica. NZ HSWA 2015 (New Zealand, 11/2020). WES-STEL: 10 mg/m³, (as Zr) 15 minutes. WES-TWA: 5 mg/m³, (as Zr) 8 hours.
xylene		NZ HSWA 2015 (New Zealand, 11/2020). WES-TWA: 217 mg/m ³ 8 hours. WES-TWA: 50 ppm 8 hours.
cobalt bis(2-ethylhexanoate)		ACGIH TLV (United States, 1/2021). Skin sensitiser. Inhalation sensitiser. TWA: 0.02 mg/m³, (as Co) 8 hours.
Recommended monitoring procedures	atmosphere or biological r of the ventilation or other of protective equipment. Re standards. Reference to r	predients with exposure limits, personal, workplace monitoring may be required to determine the effectiveness control measures and/or the necessity to use respiratory ference should be made to appropriate monitoring national guidance documents for methods for the us substances will also be required.
Appropriate engineering controls	ventilation or other engine contaminants below any re	entilation. Use process enclosures, local exhaust ering controls to keep worker exposure to airborne ecommended or statutory limits. The engineering controls pour or dust concentrations below any lower explosive of ventilation equipment.
Environmental exposure controls	they comply with the requi cases, fume scrubbers, fil	n or work process equipment should be checked to ensure irements of environmental protection legislation. In some ters or engineering modifications to the process ary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
Hygiene measures	eating, smoking and using Appropriate techniques sh Contaminated work clothir	Ind face thoroughly after handling chemical products, before g the lavatory and at the end of the working period. Hould be used to remove potentially contaminated clothing. Ing should not be allowed out of the workplace. Wash fore reusing. Ensure that eyewash stations and safety workstation location.
Respiratory protection	hazards of the product an workers are exposed to co appropriate, certified respi	be based on known or anticipated exposure levels, the d the safe working limits of the selected respirator. If oncentrations above the exposure limit, they must use irators. Use a properly fitted, air-purifying or air-fed an approved standard if a risk assessment indicates this is
Hand protection	be worn at all times when this is necessary. Conside check during use that the should be noted that the ti different for different glove	vious gloves complying with an approved standard should handling chemical products if a risk assessment indicates ering the parameters specified by the glove manufacturer, gloves are still retaining their protective properties. It ime to breakthrough for any glove material may be e manufacturers. In the case of mixtures, consisting of rotection time of the gloves cannot be accurately
		New Zealand Page: 5/11

New Zealand Page: 5/11

Product code 40048-C3149/20L

Product name SIGMARINE 48 ORANGE 3149

Section 8. Exposure controls/personal protection

Gloves Eye protection Skin protection

- : butyl rubber
 - : Safety glasses with side shields.
- : 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.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Orange.
Odour	: Aromatic.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 38.5°C (101.3°F)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapour pressure	: Not available.
Relative density	: 0.98
Bulk Density (g/cm³)	: 1.083
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Section 10. Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials strong acids strong alkalis
Hazardous decomposition products	 Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
Hazardous polymerisation	 Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Eye contact	: No known significant effects or critical hazards.
Symptoms related to	the physical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: 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
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: 📈 specific data.

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
, , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	3129 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					
Skin	: There are no data avai	lable on the mi	ixture itself.		
Eyes	: There are no data available on the mixture itself.				
Respiratory	: There are no data avai	lable on the mi	ivturo iteolf		

Product code 40048-C3149/20L

Product name SIGMARINE 48 ORANGE 3149

Section 11. Toxicological information

Sensitisation

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Potential chronic health e	ffects
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Skin contact	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: May damage fertility.
Chronic toxicity	
Not available.	
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	city

Name	• •	Route of exposure	Target organs
xylene	Category 2	-	-

Aspiration hazard

Name	
Naphtha (petroleum), hydrodesulfurized heavy	

Numerical measures of toxicity

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Acute toxicity estimates

Not available.

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 vapour/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.

Section 12. Ecological information

Ecotoxicity

: This material is toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Result			Exposure
calcium carbonate 2-ethylhexanoic acid, zirconium salt	Acute EC10 >14 mg/l Acute LC50 >100 mg/l		Algae Fish		72 hours 96 hours
Persistence/degradability					
Product/ingredient name	Aquatic half-life	Aquatic half-life			Biodegradability
xylene	-		-		Readily
Bioaccumulative potential	- I				
Product/ingredient name	LogPow BCF Po		Potent	ial	
xylene	3.12 7.4 to		18.5	low	
<u>Mobility in soil</u>		L.		1	
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 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 sewers.
Not suitable:	4	Do not allow to enter drains or watercourses.

The classification of the product may meet the criteria for a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Product code 40048-C3149/20L

Product name SIGMARINE 48 ORANGE 3149

14. Transport information

•			
	NZ	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
	RUMANE E		
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(Naphtha (petroleum), hydrodesulfurized heavy)	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

Additional information

NZ Hazabam aada	: The marine pollutant mark is not required when transported by road or rail.
Hazchem code IMDG IATA	 ST The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaution	ns 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 bull	according : Not applicable.

to IMO instruments

Section 15. Regulatory information

New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
HSNO Approval Number	: HSR002662 Flammable
Emergency Management Regulations	: Level 1: Labelling required when 1L is present in a workplace.
	Level 2: MSDS required when any amount is present in a workplace. At least 2 x 4.5 kg powder fire extinguishers required when 500L is present in a workplace.
	Level 3: Emergency Response Plans and Secondary Containment required when 1000L is stored.
	Flammable Signage required when 1000L is present in a workplace.

Section 15. Regulatory information

Classes 1 to 5 Control Regulations	 Hazardous Atmosphere Zones required for quantities greater than: 100L (closed), 25L (decanting), 5L (open occasionally), 1L (open continuously). Hazardous Substances Location Certificate required for quantities greater than: 1500L (containers up to 5L), 500L (containers >5L), 250L (open containers). 		
Approved Handler	: Not applicable.		
International regulations			
Chemical Weapon Conventi	on 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 Not listed.	POPs and Heavy Metals		

Section 16. Other information

Date of issue : 8 November 2021 ✓ Indicates information that has changed from previously issued version.

Indicates information that has changed from previously issued		
Key to abbreviations	: STEL = Short Term Exposure TWA = Time-Weighted Avera WES = Work Exposure Stand	ge
References	: Not available.	
Organisation that prepared the SDS	: EHS	

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.