# PPG Protective & Marine Coatings

## **SIGMARINE 49**

MSDS UK 01 / EN Version 7

Print Date 9/19/2009 Revision date 28-06-09

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product information** 

**Trade name** : SIGMARINE 49

**Technical data sheet number** : For further information see Technical Data Sheet.

**Recommended use** : solvent based, One-pack performance coatings

Company : PPG Coatings SPRL/BVBA

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## 2. HAZARDS IDENTIFICATION

**R-phrase(s):** FLAMMABLE.

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

P-phrase(s):

Contains: 2-butanone oxime; 2-Ethylhexanoic acid, cobalt salt

May produce an allergic reaction.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
1-methoxy-2-propanol	203-539-1	107-98-2	19th		R10	>=1.00 - <2.50%
2-butanone oxime	202-496-6	96-29-7	28th		Carc.Cat.3; R40 Xn; R21 Xi; R41 R43	>=0.10 - <1.00%
Naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9		Nota H, Nota P	R10 Xn; R65 R66	>=25.00 - <50.00%
Naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9		Nota H, Nota P	Xn; R65 R66	>=1.00 - <2.50%

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2-Ethylhexanoic acid, cobalt	237-015-9	13586-82-8		N; R51/53	>=0.10 - <1.00%
salt				Xn; R22	
				Xi; R38	
				R43	

Producer declares that for R-phrases not mentioned in chapters 3, the entire amount of hazardous substances is below limits. For components with an occupational threshold limit value see chapter 8. The benzene content of this product is less than 0.1%. Nota P and H apply.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

#### 4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek medical advice. Never

give anything by mouth to an unconscious person.

**Eye contact** : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the

eyelids apart. Remove contact lenses. Seek medical advice.

Skin contact : Take off all contaminated clothing immediately. Wash skin thoroughly with

soap and water or use recognized skin cleanser. Do NOT use solvents or

thinners.

Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregular

or stopped, administer artificial respiration. If unconscious place in recovery

position and seek medical advice.

Ingestion : If accidently swallowed obtain immediate medical attention. Keep at rest. Do

NOT induce vomiting.

**Burns** : If spills on clothing catch fire, wash with plenty of water. Remove loose

clothing. Do not remove clothing that has melted to the skin.Obtain medical

attention.

## 5. FIRE-FIGHTING MEASURES

Specific hazards during fire

fighting

: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment

for fire-fighters

Suitable extinguishing media

In the event of fire, wear self-contained breathing apparatus.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Keep containers and surroundings cool with water spray.

Extinguishing media which shall not be used for safety

reasons

: Do NOT use water jet.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment. Ventilate the area. Refer to protective

measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can

accumulate in low areas. Remove all sources of ignition.

**Environmental precautions**: Try to prevent the material from entering drains or water ways. If the product

contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Clean with detergents. Avoid solvents. Contain and collect spillage with non-

combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

regulations (see section 13).

Additional advice : Refer to section 15 for specific national regulation.

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#### 7. HANDLING AND STORAGE

Handling

Safe handling advice

Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.

Advice on protection against fire and explosion

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously selfignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tightfitting self-closing lids or laid out flat in a single layer to dry or placed in a closed metal container soaked with water or washed out well with warm soapy water before disposal. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Storage

Requirements for storage areas and containers

Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 30°C (41 - 86 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).

**Advice on common storage** : Keep away from oxidising agents and strongly acid or alkaline materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components on the national list and/or the European TLV list (98/24/EC):

Components	CAS-No.	Value	Value	Basis
		$[mg/m^3]$	[ppm]	

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#### SAFFTY DATA SHFFT

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1-methoxy-2-propanol can be absorbed through skincan be absorbed through skin	107-98-2	375 560 375 568	100 150 100 150	EH40 WEL TWA EH40 WEL STEL EU ELV TWA EU ELV STEL
2-Ethylhexanoic acid, cobalt salt	13586-82-8	0.1		EH40 WEL TWA (as Co)

#### Personal protective equipment

#### General advice

**Respiratory protection** 

: When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikly to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed airfed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Hand protection

: For prolonged or repeated contact use protective gloves.

Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

Skin should be washed after contact.

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms.

Recommended gloves: Nitrile rubber Minimum breakthrough time: 480 min

The recommended gloves are based on most common solvent in this product.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled,physicalrequirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glovematerials, as wellas the instructions/specifications provided by the glove supplier.

Eye protection Skin and body protection Chemical resistant goggles must be worn.

Personnel should wear protective clothing. Skin should be washed after contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic footwear

Additional advice

**Environmental protection** 

: Refer to national regulations in chapter 15 for regulations on environmental protection.

Personal protection Protective equipment

: Eye protection, safety gloves and combi mask P1A1







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Please contact your personal protection equipment supplier for further advice

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : viscous Colour : various

Odour : very faint hydrocarbon-like

Flash point : 39.0 °C

Note: Calculated

368.7 g/m3

**Lower explosion limit** : 0.63 %(V)

36.93 g/m3

**Density** : 1.14 g/cm3

at 20 °C

Water solubility : not applicable

ρΗ

Viscosity, dynamic : 550 mPa.s at 23 °C

Flow time : >= 60 s

Transversal section: 6 mm

Method: ISO 2431 (EN 535) 6 mm CUP

#### 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid temperatures above 60°C (140 F), direct sunlight and contact with

sources of heat.

**Hazardous reactions** : Keep away from oxidising agents, strongly alkaline and strongly acid

materials in order to avoid exothermic reactions.

Hazardous decomposition

products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx),

dense black smoke.

# 11. TOXICOLOGICAL INFORMATION

**Product information** : There is no data available for this product.

The preparation has been assessed following the conventional method of the

Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Acute oral toxicity : May cause nausea, abdominal spasms and irritation of the mucous

membranes.

Acute inhalation toxicity : Exposure to component solvent vapours concentration in excess of the stated

occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss

of consciousness.

**Skin irritation** : Repeated or prolonged contact with the preparation may cause removal of

natural fat from the skin resulting in desiccation of the skin. The product may

be absorbed through the skin.

**Eye contact** : The liquid splashed in the eyes may cause irritation and reversible damage.

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**Further information** There is no data available for this product.

**Acute Toxicity Data for Components** 

2-butanone oxime(96-29-7)

Acute inhalation toxicity LC50: > 4.8 mg/l (rat)

Acute dermal toxicity LD50: 1,000 - 1,800 mg/kg (rabbit)

## 12. ECOLOGICAL INFORMATION

: No data is available on the product itself. The preparation has been assessed Further information

> following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment. See section 3 for details on components. The product should not be allowed to

enter drains, water courses or the soil.

#### 13. DISPOSAL CONSIDERATIONS

**Product** The product should not be allowed to enter drains, water courses or the soil.

Disposal together with normal waste is not allowed. Special disposal required

according to local regulations.

Waste key for the unused

product

The European Waste Catalogue classification of this product, when disposed

of as waste is:

08 01 11 Waste paint and varnish containing organic solvents or other

dangerous substances.

If this product is fully cured or mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority

#### 14. TRANSPORT INFORMATION

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

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport:

**UN-Number** 1263 Proper shipping name **PAINT** Class 3 Packing group III Label : PAINT Proper shipping name (ADR)

Marine Pollutant (IMDG)

EmS (IMDG) F-E, S-E

Limited quantity (ADR) Max. per inner pack. : 5.00 L

Max. per outer pack. : 30.00 KG Limited quantity (IMDG) Max. per inner pack. : 5.00 L

Max. per outer pack. : 30.00 KG

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Note

ADR: If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR.

IMDG: If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG code, but both full documentation and placarding of cargo transport units is still required.

#### 15. REGULATORY INFORMATION

The product is classified and labelled in accordance with Directive 1999/45/EC.

**R-phrase(s)** : R10 Flammable.

R66 Repeated exposure may cause skin dryness or

cracking.

S-phrase(s) : S 2 Keep out of the reach of children.

S23 Do not breathe spray.

S38 In case of insufficient ventilation, wear suitable

respiratory equipment.

S46 If swallowed, seek medical advice immediately and

show this container or label.

**P-phrase(s)** : Contains : 2-butanone oxime; 2-Ethylhexanoic acid,

cobalt salt

May produce an allergic reaction.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### National legislation

Further information : HS (G) 178, Spraying of Flammable Liquids, HSE., HS (G) 176, Storage of

Flammable Liquids in Tanks, HSE., HS (G) 51, Storage of Flammable Liquid in Containers, HSE., HS (G) 37, An introduction to Local Exhaust Ventilation, HSE., Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions., Environmental Protection Act, 1990 and associated legislation., The Special Waste Regulations, 1996 and amendments., The

legislation., The Special Waste Regulations, 1996 and amendments., The Chemicals (Hazard Information and Packaging for Supply) Regulations, 1994 and amendments., EH 40, Occupational Exposure Limits, HSE. Revised annually., HS(G) 53, Respiratory Protective Equipment - A Practical Guide for Users, HSE., HS(G) 97, A Step by Step guide to COSHH Regulations,

HSE., EH 173, Monitoring Strategies for Toxic Substances, HSE.

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#### 16. OTHER INFORMATION

This product contains a complex mixture of hydrocarbons. Detailed information can be obtained from the producer.

#### Explanation of R-phrases mentioned in section 3

1-methoxy-2-propanol	R10	Flammable.
2-butanone oxime	R21 R40	Harmful in contact with skin. Limited evidence of a carcinogenic effect.
	R41 R43	Risk of serious damage to eyes.  May cause sensitization by skin contact.
Naphtha (petroleum), hydrotreated heavy	R10 R65 R66	Flammable. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
Naphtha (petroleum), hydrotreated heavy	R65 R66	Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
2-Ethylhexanoic acid, cobalt salt	R22 R38 R43 R51/53	Harmful if swallowed. Irritating to skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This Safety Data Sheet is based on the Safety Data Sheets obtained from the producer/manufacturer or/and internet databases and valid regulations considering hazardous substances/preparations.

#### Training advice:

Persons taking part in a turnover of hazardous products ought to be trained in product handling, safety and hygiene.

Drivers ought to be trained and obtain a certificate in accordance with the requirements of transport regulations (ADR).

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The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.

Technical data sheet number 7240