



**PPG Protective & Marine
Coatings**

**SAFETY DATA SHEET
according to Regulation (EC) No 1907/2006**

Date of issue : 9-5-2007
Revision : 16-5-2008

FOR PROFESSIONAL USE ONLY

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1. Identification of the preparation :

Product Number: M-1431006
Product Name: AMERCOAT 4310 BLACK

1.2. Use of the preparation :

- General Industrial coating

1.3. Company Identification:

Manufactured by:
PPG Industries Netherlands B.V.
J.F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands.
Tel: +31 (0)345 587 200

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For further information please contact:

PPG Industries Netherlands B.V.
J.F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands.
Tel: +31 (0)345 587 200

1.4. Emergency telephone :

- Company emergency telephone number : +31 (0) 345 587 200

2. HAZARDS IDENTIFICATION

- Xi - IRRITANT
- May cause sensitization by skin contact.
- FLAMMABLE.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EC and amendments.

For the hazards of the preparation, see Section 2.

SUBSTANCES % by Wt in the product	SYMBOL and R(*) phrases of the pure substances	CAS number	EINECS / ELINCS
COBALT 2-ETHYLHEXANOATE 0.1 - < 0.2 %	Xi R38,R43	13586-82-8	237-015-9
PROPYLBENZENE 0.2 - < 0.5 %	Xn N R65,R37,R51/53,R10	103-65-1	203-132-9
MESITYLENE 0.2 - < 0.5 %	Xi N R37,R51/53,R10	108-67-8	203-604-4
1;2;4-TRIMETHYLBENZENE 1 - < 2 %	Xn N R20,R36/37/38,R51/53,R10	95-63-6	202-436-9
REACTION PRODUCT- MIXED DIAMID WAX 1 - < 2 %	Xi R43,R53		432-430-3
CARBON BLACK 2 - < 3 %		1333-86-4	215-609-9
XYLENE (MIXTURE OF ISOMERS) 2 - < 3 %	Xn R20/21,R38,R10	1330-20-7	215-535-7
BARIUM SULFATE 12.5 - < 15 %		7727-43-7	231-784-4
NAPHTHA(PETROLEUM);HYDRODESULFURIZED HEAVY 30 - < 40 %	Xn R65	64742-82-1	265-185-4

(*) See full text of phrases under Section 16.

4. FIRST AID MEASURES

General :

In all cases of doubt or when symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation :

Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Eye contact :

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use solvents or thinners.

Ingestion :

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media :

- . Recommended: universal resistant foam, CO2, powder.
- . Not to be used: water jet.

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Recommendations :

- . Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.
- . Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.
- . Do not weld, expose to extreme heat or ignition sources, empty containers which have contained flammable products.
- . Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

- Exclude sources of ignition and ventilate the area. Avoid breathing vapours by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.
- Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.
- Clean preferably with a detergent ; avoid use of solvents.
- If the product contaminates lakes, rivers or sewers, inform water authorities in accordance with local regulations.

7. HANDLING AND STORAGE

7.1 Handling

Manual Handling of Loads: Council Directive 90/269/EEC and the Manual Handling Operations Regulations may apply to the handling of certain paint products.

- Smoking, eating and drinking should be prohibited during handling.
- Keep containers tightly closed. Any containers which are opened should be carefully resealed.
- Avoid skin and eye contact. Avoid inhalation in case of exposure to vapour and spray mist.

Packaging materials :

- . Recommended: keep preferably in original container.
- . Avoid :
 - * Those sensitive to solvents

- Handle and open containers with care to avoid sudden ejections. Never use pressure to empty : container is not a pressure vessel. Clean or discard contaminated clothing and shoes.
- Preparation may charge electrostatically : always use earthing leads when transferring between containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.
- Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air, and avoid vapour concentration higher than the Occupational Exposure Limits.
- Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools should be used.
- Wear appropriate respiratory equipment when paint spraying, even outdoors. In all cases when working in a confined area or spraybooth, or where ventilation is unlikely to be sufficient to control particulates and solvent vapour, operators should wear a compressed airfed respirator during the spraying process.

The accumulation of dry overspray, contaminated rags, etc. may result in spontaneous combustion. Good housekeeping standards, the regular maintenance of spray booth filters and the regular and safe removal of waste materials will minimise the risk.

7.2 Storage

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Observe label precautions. Store between 0 and 35°C in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight.
Store in accordance with The Dangerous Substances and Explosive Atmospheres Regulations 2002.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures

Avoid the inhalation of vapour, spray mist and particulates. This should be achieved by the provision of local exhaust ventilation and good general extraction to keep air-borne concentration below the Occupational Exposure Limits (OEL). If these are not sufficient to comply with OEL, suitable respiratory protection must be worn.

8.2 Exposure limits

Substances	8-hr limit		----- Workplace Exposure limit (-----)		Comments
	ppm	mg/m3	ppm	15-minute limit mg/m3	
COBALT 2-ETHYLHEXANOATE	Co	0.1	-	-	Sen
XYLENE (MIXTURE OF ISOMERS)	50	220	100	441	Sk
MESITYLENE	25	125	-	-	
1;2;4-TRIMETHYLBENZENE	25	125	-	-	
BARIUM SULFATE	-	4	-	-	RD
CARBON BLACK	-	3.5	-	7	

(.) : See Guidance Note EH 40, Workplace exposure limits
Carc : Capable of causing cancer
Sk : Can be absorbed through skin
Sen : Capable of causing occupational asthma
RD : Respirable dust
- : Not estimated

8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protective Equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

Respiratory protection :

Appropriate certified respiratory protective equipment should be selected according to the type of contaminants, following official and manufacturers instructions including proper fitting.

Hand protection :

For prolonged or repeated contact, we recommend gloves type : neoprene rubber, nitrile rubber, polyvinyl alcohol.

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

Eye protection :

Use safety glasses to protect against splashes.

Skin protection :

Personnel should wear protective clothing made of antistatic and fire resistant fibres. All parts of the body should be washed after contact.

Use good hygiene and industrial practices, keeping working clothes clean.

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All the above precautions also apply to dry sanding and thermal decomposition, eg welding or flame cutting of the dried product, which will give rise to dust and/or fumes.

Steps must be taken to ensure that persons nearby who may be unconnected with the spraying, sanding or hot-work operations, are not affected.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20°C : Liquid
- Flash point : 46°C Method : ISO 3679
- Specific gravity at 20°C : 1.1 g/cm³ Method : ISO 2811
- Vapour density : > air
- Lower explosion limit (vol %) : 0.6 (NAPHTHA(PETROLEUM);HYDRODESULFURIZED HEAVY)
- Upper explosion limit (vol %) : 8.0 (NAPHTHA(PETROLEUM);HYDRODESULFURIZED HEAVY)
- Miscibility in water at 20°C : not miscible
- pH : not applicable
- Vapour pressure at 20°C : 3 mm Hg

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

In case of combustion, may produce hazardous decomposition products such as :

- Carbon monoxide

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. 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.

Exposure to component solvents vapours at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

13. DISPOSAL CONSIDERATIONS

The provisions of Council Directive 91/689/EEC and subsequent Amendments and Decisions apply to wastes from the product as supplied.

EWC- Code : 08 01 11

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Hazardous Properties :
 H3-B Flammable
 H5 Harmful

It is recommended that the container is emptied of as much material as possible prior to recycling or disposal of the container.

Store waste in accordance with The Dangerous Substances and Explosive Atmospheres Regulations 2002.

Do not allow into drains or water courses.

Waste and emptied containers must be disposed in accordance with :

- Environment Protection Act
- Control of Pollution Act 1974,
- Special Waste Regulations 1996,

They should be recycled or disposed of through a licenced waste management facility.

Wastes derived from the product may be subject to the classification requirements of the Directive and the Special Waste Regulations.

14. TRANSPORT INFORMATION

UN number : UN1263
 PROPER SHIPPING NAME : Paint
 N.O.S. Technical Name : None
 Class : 3
 Subsidiary Class(es): None
 Packing group : III

ADR/RID
 TREMCARD: 30GFI-III

IMDG
 EMS No.: F-E~S-E
 Marine Pollutant: White Spirit

ICAO/IATA
 Passenger Air Packing Instruction : 309
 Passenger Air Max Quantity/Package : 60 Liters
 Cargo Air Packing Instruction : 310
 Cargo Air Max Quantity/Package : 220 Liters

15. REGULATORY INFORMATION

LABEL

According to the Directive (1999/45/EC), relating to the classification packaging and labelling of dangerous substances and preparations, the product is labelled as follows :



- Xi - IRRITANT
- CONTAINS : REACTION PRODUCT- MIXED DIAMID WAX
 Contains : 'COBALT 2-ETHYLHEXANOATE'. May produce an allergic reaction.
- R43 May cause sensitization by skin contact.
- R10 FLAMMABLE.
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S23+S38+S24 Do not breathe vapour / spray. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin.

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- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.

- The provisions of the Health and Safety at Work Act, the Control of Substances Hazardous to Health Regulations and The Dangerous Substances and Explosive Atmospheres Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Full text of R phrases with N° appearing in Section 3:

- R38 Irritating to skin.
- R43 May cause sensitization by skin contact.
- R65 Harmful: may cause lung damage if swallowed.
- R37 Irritating to respiratory system.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R10 FLAMMABLE.
- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R53 May cause long-term adverse effects in the aquatic environment.
- R20/21 Harmful by inhalation and in contact with skin.

The information contained in this data sheet is based on present scientific and technical knowledge. AS OF : 16-5-2008

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.

- The information contained in this Safety Data Sheet is provided in accordance with the requirements of Regulation (EC) No 1907/2006 and the Chemicals (Hazard Information and Packaging) Regulations.

END OF SAFETY DATA SHEET