



# SAFETY DATA SHEET

## 1. Identification of the preparation and of the company/undertaking

**Product Name and/or Code** : HEMPEL'S DECK PAINT 5112D  
 5112D10000  
**Company name and address** : Hempel A/S  
 Lundtoftevej 150  
 DK-2800 Kgs. Lyngby  
 Denmark  
 Tel.: + 45 45 93 38 00  
**Emergency phone:**  
 +45 45 93 38 00  
 See section 4 First aid measures.  
**Product Type** : Alkyd enamel  
**Field of application** : private (yacht), ships and shipyards.  
**Date of issue** : 22-11-2005.  
**Date of Previous Issue** : No previous validation.

## 2. Composition/information on ingredients

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

Ingredient Name	CAS No.	%	EC Number	Classification
white spirit	64742-88-7	15 - 20	265-191-7	Xn; R65 N; R51/53
naphtha (petroleum), hydrotreated heavy	64742-48-9	12.5 - 15	265-150-3	Xn; R65 N; R51/53
1-methoxy-2-propanol	107-98-2	1 - 3	203-539-1	R10
xylene	1330-20-7	1 - 3	215-535-7	R10 Xn; R20/21 Xi; R38
2-butanone oxime	96-29-7	0.2 - 0.5	202-496-6	Carc. Cat. 3; R40 Xn; R21 Xi; R41 R43
cobalt(2+) salts of C6-19 branched fatty acids	*68409-81-4	0.15 - 0.2	*270-066-5	Xn; R22 Xi; R38 R43 N; R51/53

### Notes

(\*) See full text of phrases under section 16 and occupational Exposure Limit(s), if available, are listed in section 8

## 3. Hazards identification



### Dangerous for the environment

Flammable Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains (2-butanone oxime, cobalt(2+) salts of C6-19 branched fatty acids). May produce an allergic reaction.

## 4. First aid measures

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation	: Move the person into fresh air and keep the person under surveillance. 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. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
Eye Contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention.
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 document. Keep person warm and at rest. Do NOT induce vomiting unless directed to do so by medical personnel. Lower the head so that the vomit will not reenter the mouth and throat.

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## 5. Fire-fighting measures

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Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Fire-fighters should wear appropriate protective equipment. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Extinguishing Media	: Recommended: alcohol resistant foam, CO <sub>2</sub> , powders, water spray. Not to be used : waterjet.
Fire Degradation Products	: These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.

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## 6. Accidental release measures

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Exclude sources of ignition and be aware of explosion hazard. Ventilate the area.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to 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 the appropriate authorities in accordance with local regulation.

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## 7. Handling and storage

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### Handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

### Storage

Store in accordance with local regulations for flammable liquids. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children.

Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

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## 8. Exposure controls/personal protection

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Engineering measures	: Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Hygiene measures	: Wash hands, forearms, and face thoroughly after handling the product and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name	Occupational Exposure Limits
white spirit	<b>80/1107/EEC (Europe, 2000).</b> TWA: 25 ppm 8 hour/hours. TWA: 145 mg/m <sup>3</sup> 8 hour/hours.
naphtha (petroleum), hydrotreated heavy	<b>EU OEL (Europe, 2002).</b> TWA: 180 mg/m <sup>3</sup> 8 hour/hours.
1-methoxy-2-propanol	<b>EU OEL (Europe, 4/2004). Skin</b> STEL: 568 mg/m <sup>3</sup> 15 minute/minutes. Form: All forms STEL: 150 ppm 15 minute/minutes. Form: All forms TWA: 375 mg/m <sup>3</sup> 8 hour/hours. Form: All forms TWA: 100 ppm 8 hour/hours. Form: All forms
xylene	<b>EU OEL (Europe, 4/2004). Skin</b> STEL: 442 mg/m <sup>3</sup> 15 minute/minutes. Form: All forms STEL: 100 ppm 15 minute/minutes. Form: All forms TWA: 221 mg/m <sup>3</sup> 8 hour/hours. Form: All forms TWA: 50 ppm 8 hour/hours. Form: All forms

## Personal protective equipment

General	: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.
Respiratory system	: If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. When the product is applied by spraying and for continuous or prolonged work always wear an air-fed respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Be sure to use approved/certified filter, respirator or equivalent.
Skin and body	: If necessary wear protective clothing. Always wear protective clothing when spraying.
Hands	: Wear suitable gloves. Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred. Barrier creams may not be used under or instead of gloves. It is not possible to specify precise type of gloves, since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type.
Eyes	: Use safety eyewear designed to protect against splash of liquids.

## 9. Physical and chemical properties

Physical state	: Liquid.
Density	: Weighted average: 1.27 g/cm <sup>3</sup>
Solubility	: Insoluble in cold water, hot water.
Flash point	: Closed cup: 38°C (100.4°F).
Explosion Limits	: 0.5 - 13.1 vol %
% Solvent by Weight	: Weighted average: 33 %
% Water by Weight	: Weighted average: 0 %
VOC Content	: Weighted average: 422 g/l (CEPE)
TOC Content	: Weighted average: 359 g/l (based on data for: Solvent.)
Solvent Gas	: 0.076 m <sup>3</sup> /l

## 10. Stability and reactivity

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

Highly reactive or incompatible with the following materials: metals.

Reactive or incompatible with the following materials: oxidizing materials and acids.

Slightly reactive or incompatible with the following materials: reducing materials.

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

These products are carbon oxides (CO, CO<sub>2</sub>). Some metallic oxides.

## 11. Toxicological information

### Effects and symptoms

Exposure to component solvent vapor concentrations 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, 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 contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

**Sensitization** : Contains (2-butanone oxime, cobalt(2+) salts of C6-19 branched fatty acids). May produce an allergic reaction.

### Acute toxicity

Ingredient Name	Test	Result	Route	Species
white spirit	LD50	5000 mg/kg	Oral	Rat
	LD50	3000 mg/kg	Dermal	Rabbit
	LC50	>14 mg/l (4 hour/hours)	Inhalation	Rat
1-methoxy-2-propanol	LD50	5700 mg/kg	Oral	Rabbit
	LDLo	3739 mg/kg	Oral	Rat
	LD50	4300 mg/kg	Oral	Rat
xylene	LD50	>1700 mg/kg	Dermal	Rabbit
	LDLo	50 mg/kg	Oral	Human
	LC50	>6700 ppm (4 hour/hours)	Inhalation	Rat
2-butanone oxime	LD50	930 mg/kg	Oral	Rat
	LD50	>200 mg/kg	Dermal	Rat
	LC50	20 mg/l (4 hour/hours)	Inhalation	Rat

## 12. Ecological information

The product must not be drained into water courses or drainage system.

The product is considered having hazardous effects in the aquatic environment following the method of the Dangerous Preparations Directive.

Ingredient Name	Species	Period	Result
xylene	Oncorhynchus mykiss (LC50)	96 hour/hours	8.2 mg/l

## 13. Disposal considerations

Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations.

Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.



European waste catalogue no. (EWC) and national waste group, catalogue, code or number is given below.

EWC no. : 08 01 11

## 14. Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea.

The transport classification is according to ADR 2005, IMDG edition 2004 (incl. Amdt. 32-04).

	UN-no.	Proper shipping name	Class	PG*	Label	Additional information
<b>ADR/RID Class</b>	1263	PAINT	3	III		<b>Remarks</b> H-14
<b>IMDG Class</b>	1263	PAINT. (white spirit)	3	III		<b>Emergency schedules (EmS)</b> F-E, S-E

(P)

PG\* : Packing group

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## 15. Regulatory information

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Classification and labelling according to EU-Directives (the Preparations directive etc.).

Symbol	: <b>Dangerous for the environment</b>
Risk Phrases	: R10- Flammable. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	: S2- Keep out of the reach of children. S23- Do not breathe vapor/spray. S29- Do not empty into drains. S46- If swallowed, seek medical advice immediately and show this container or label.
Additional Warning Phrases	: Contains (2-butanone oxime, cobalt(2+) salts of C6-19 branched fatty acids). May produce an allergic reaction.

### Other EU Regulations

Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Consumer applications, Used by spraying.

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## 16. Additional information

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Full text of R-phrases referred to in the Safety Data Sheet	: R10- Flammable. R40- Limited evidence of a carcinogenic effect. R20/21- Harmful by inhalation and in contact with skin. R21- Harmful in contact with skin. R22- Harmful if swallowed. R65- Harmful: may cause lung damage if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. R43- May cause sensitization by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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### Notice to Reader

Modified data or content compared with the previous version are marked with a triangular marker in the upper-left corner within the Safety Data Sheet.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications. It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.