



# SAFETY DATA SHEET

## 1. Product and Company name

Product name and/or Code : MILLE DRIVE 71350  
Company Name : Blakes Paints  
Swanwick Marina  
Southampton  
Hampshire  
Tel: 01489 864440  
Manufacturer : Hempel A/S, Lundtoftevej 150 DK-2800  
Lyngby, Denmark  
Product Type : Protection paint for propellers and outboards  
Application Area : Private (leisure craft), ships and shipyards  
Issue Date : 28-11-2003  
Previous Issue Date : 24-11-2003

## 2. Composition/ classification of components

Components classified as hazardous to health according to EU directive Regulations for the classification and marking of chemical products (67/548/EEC).

Ingredient Name	CAS No.	%	EC No.	Classification
zinc oxide	1314-13-2	40-50	215-225-5	N; R50/53
naphtha solvent (petroleum) slightly aromatic	64742-95-6	20-30	265-199-0	R10, Xn; R20, R65 Xi; R36/37/38 N; R51/53, R43
resin	8050-09-7	10-15	232-475-7	R43
diisodecylphthalate	26761-40-0	2-5	247-977-1	
methylisobutylketone	108-10-1	2-5	203-550-1	F; R11 Xn; R20 Xi; R36/37/38
paint-grade (<20 weight-aromatic content) naphtha	64742-88-7	0.15-0.2	265-191-1	R10 Xn; R65 N; R51/53

### Remarks

(\*) Full text of phrases see Section 16. Hygiene-related limit values, if any, shown in Section 8.

## 3. Hazardous characteristics



Irritant



Environmentally damaging



Extremely flammable

Extremely flammable. Hazardous to inhale. Skin contact can cause allergic reaction. Irritating to eyes, lungs and skin. Highly toxic to aquatic organisms, may cause long-term damage in aquatic environment.

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## **4. First Aid**

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 irregular breathing, or 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 the container or label. 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.

## **5. Actions in the event of fire**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Fire fighters should wear proper 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> ). Metallic oxides.

## **6. Actions in the event of spillage/unintentional release**

Remove all sources of ignition and ensure good exchange of air.  
Avoid direct contact with spilt material. Avoid breathing in fumes or dust.  
Implement protective measures in accordance with section 7 and 8.

Restrict spread and collect spillage using incombustible material, e.g. sand , earth, mica or kieselguhr and place the spillage in containers according to applicable regulations (see section 13). Must not be released into drains or waterways. Clean preferably with detergent. If the product escapes into lakes, rivers or drains contact civil authorities in accordance with applicable regulations.

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## **7. Handling and storage**

### **Handling**

The fumes are heavier than air and can spread along the floor. Fumes can form explosive mixtures with air. Prevent fumes building up in concentrations which create an ignition or explosion hazard and avoid fume concentrations which exceed working environment limit values. In general the product may 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. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used. During transfer , earth the vessel and attach it to the recipient container using an electrical conductor.

Avoid breathing in dust, droplets or spray mist. Avoid contact with skin or eyes. Eating, drinking and smoking must be forbidden in areas where the product is handled, stored or processed. For personal protective equipment, see section 8. Always store the product in containers made of the same material as the original.

### Storage

Must be stored in accordance with applicable regulations. Observe the warning texts on the label. Keep in a cool, well ventilated area, away from contaminants and ignition sources. Keep out of reach of children. Store away from oxidising substances, strong alkalis, strong acids. No smoking. Prevent unauthorised access. Opened containers must be carefully re-sealed and stored upright to prevent leakage.

## 8. Limitation of exposure/personal protective measures

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 compounds and before eating, smoking, using lavatory, and at the end of day.

### Ingredient name

naphtha solvent (petroleum):

### Hygiene limit values

**AFS (Sweden, 1966).**  
KTV: 170mg/m<sup>3</sup> 15 minute(s)  
NGV: 120 mg/m<sup>3</sup> 8hour(s).

diisodecylphthalate:

**AFS (Sweden, 2000).**  
NGV: 3 mg/m<sup>3</sup> 8 hour(s).  
KTV: 5 mg/m<sup>3</sup> 8 hour(s).

methylisobutylketone:

**AFS (Sweden, 2000).**  
NGV: 100 mg/m<sup>3</sup> 8 hour(s).  
NGV: 25 ppm 8 hour(s).  
KTV: 200 mg/m<sup>3</sup> 15 minute(s).  
KTV: 50 ppm 15 minute(s)

Paint naphtha (<200 weight-% aromatic content):

**80/1107/EEC (Europe, 2000). Remarks. Tentative**  
  
TWA: 25 ppm 8 hour(s).  
TWA : 145 mg/m<sup>3</sup> 8 hour(s).

### 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.
Respiratory system:	If working areas have insufficient ventilation, wear half or totally covering mask equipped with gas filter of type A (Brown), when grinding with particle filter of type P2. When spraying wear combined filter AP. Be sure to use approved/certified respirator or equivalent. Always wear air-fed respirator when spraying. In continuous and prolonged work isolating protection (e.g. hood with supply of fresh or compressed air) or motor driven fan protection is recommended.
Skin and body:	Wear suitable 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.

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## **9. Physical and chemical characteristics**

Physical state : Liquid  
Density : 1.557g/cm<sup>3</sup>  
Solubility : Insoluble in cold or hot water  
Flash point : Closed container: 32°C  
Explosion limits : 0.5 – vol %  
Weight% solvent : Weighted mean value: 29 %  
Weight% water : Weighted mean value: 0 %  
VOC content : Weighted mean value: 453 gm per litre (CEPE)

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## **10. Stability and reactivity**

Stable under recommended storage and handling conditions (see section 7).  
Highly reactive with OXIDIZING AGENTS, acids.  
Reactive with REDUCING AGENTS, organic substances, metals, alkalis.  
High temperatures (combustion) can cause the formation of hazardous combustion products. These products are carbon oxides (CO, CO<sub>2</sub>). Certain metallic oxides.

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## **11. Toxicological information**

Exposure to solvent fumes can cause health effects in the shape of irritation of mucous membranes and airways, as well as damage to kidneys, liver and the central nervous system. Solvent material can produce some of the above effects as a result of skin absorption. Some of the symptoms are headaches, dizziness, exhaustion, muscular weakness, sleepiness and in severe cases loss of consciousness. Repeated or long-term contact with the product can cause loss of natural skin oils followed by non-allergic contact eczema and skin absorption. Splashes in the eyes can cause irritation and temporary damage. Unintentional ingestion can cause stomach pains. Chemical inflammation of the lungs can occur if the product enters the lungs as a result of vomiting.

Sensitisation : Contains resin. Can cause allergic reaction.

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## 12. Eco-toxicological information

The product must not be released in waterways or drainage systems.

The product is considered to be hazardous to the aquatic environment using the hazardous substances directive method.

<a href="#">Ingredient name</a>	<a href="#">Test subjects</a>	<a href="#">Period</a>	<a href="#">Result</a>
zinc oxide	Daphnia magna (EC50)	48 hour(s)	>1000mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	<320 mg/l
Methylisobutylketone	Pimephales promelas	96 hour(s)	505mg/l

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## 13. Waste treatment

This product is classified as hazardous in accordance with the EC directive on hazardous waste. It must be treated in accordance with all applicable laws and local regulations.

Spillage, unused product, work clothes etc. must be kept in a fireproof environment.

[European waste catalogue number \(EAK\)](#) and [national waste group number](#) are given below.



[EAK no.](#) : 08 01 11

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## 14. Transport information

The product may be transported in accordance with national legislation or ADR for road transport, RID for railway transport, IMDG for transport by ship.

The transport classification complies with ADR 2003, IMDG issue 2002 (including supplement 31-02).

<a href="#">UN number</a>	<a href="#">Official Transp. Designation</a>	<a href="#">Class</a>	<a href="#">Packaging Grp</a>	<a href="#">Label</a>	<a href="#">Add. Inform.</a>
<a href="#">ADR/RID Class</a>	UN1950	Aerosol	2	III	 <b>Remarks</b> H-14
<a href="#">IMDG plan class</a>	UN1950	AEROSOLS	2	III	 <b>Emergency</b> F-E, S-E

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## **15. Applicable regulations**

Classification and marking in accordance with EC directives (product directive and others).

Classification	: <b>Health hazard, Environmentally damaging</b>
Content	: - naphtha solvent (petroleum), slightly aromatic : - resin
Risk phrases	: R11- Highly flammable. R20- Hazardous if breathed in. R36/37/38 Irritates eyes, airways and skin. R43- can cause allergic reaction on contact with skin R50/53- Highly toxic to aquatic organisms, can cause long term damage to aquatic environment
Safety phrases	: S2- Keep out of reach of children. : S23- Avoid breathing in fumes/mist. : S24- Avoid skin contact. : S29- Do not pour down drain. : S37- Use suitable protective gloves. : S46- If swallowed contact doctor, show doctor packaging. ; Ensure good ventilation.

### **Other EC requirements**

Classification and marking has been carried out in compliance with EU directives 67/548/EEC and 1999/45/EC with changes and for the intended method of use.

- For consumer use. Industrial applications, use when spray painting.

Warning markings for visually impaired : Yes, recommended

### **The product complies with the IMO Anti-fouling Convention Compliant (AFS/CONF/26)**

Product type	: Paint for propellers and outboard motors
Manufacturer	: Hempel A/S
Product name and code	: HEMPEL'S MILLE DRIVE 71350
Colours	: Black and grey

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## **16. Additional information**

R-phrases under section 2	: R11- Highly flammable. R19- Fire hazard. R20- Dangerous if breathed in. R65- Hazardous – can cause lung damage if swallowed. R36/37- Irritates eyes and airways. R36/37/38- Irritates eyes, airways and skin. R43- Can cause allergic reaction on contact with skin. R66- Repeated contact can cause dry and cracked skin . R50/53- Highly toxic to aquatic organisms, can cause long-term damage to aquatic environment. R51/53- Toxic to aquatic organisms, can cause long-term damage to aquatic environment.
Description of classification under section 2	F – Extreme fire hazard Xn- Health hazard Xi – Irritant N – Environmental hazard

**Note to the reader**

Modified data or contents compared with previous issues have a rectangular mark in the top left corner of the Product Information.

The information in this product information sheet is based on our present knowledge and on EU and national legislation. The information is a description of the health, safety, and environmental considerations which must be taken into account when using the product, and are not a guarantee of the product's characteristics in general.

The employer/user is always responsible for ensuring that the work is carried out in accordance with national legislation.