



SAFETY DATA SHEET

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

Product Name and/or Code : BLAKE'S GLIDE SPEED 7142T
 7142T51170
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 : hard antifouling (insoluble matrix)
Field of application : private (yacht).
Date of issue : 8/16/2006.
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
copper (I) oxide	1317-39-1	30 - 40	215-270-7	Xn; R22 N; R50/53
solvent naphtha (petroleum), light arom.	64742-95-6	15 - 20	265-199-0	R10 Xn; R20, R65 Xi; R36/37/38 N; R51/53
zinc oxide	1314-13-2	12.5 - 15	215-222-5	N; R50/53
colophony	8050-09-7	5 - 10	232-475-7	R43
4-methylpentan-2-one	108-10-1	1 - 3	203-550-1	F; R11 Xn; R20 Xi; R36/37 R66
white spirit	64742-88-7	0.2 - 0.5	265-191-7	Xn; R65 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



Harmful



Dangerous for the environment

Flammable. Harmful if swallowed. May cause sensitization by skin contact. Irritating to eyes and respiratory system. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 : 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. 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. Seek immediate 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.

5. Fire-fighting measures

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 ₂ , powders, water spray. Not to be used : waterjet.
Fire Degradation Products	: These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ etc.), halogenated compounds, hydrogen fluoride. Some metallic oxides.

6. Accidental release measures

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.

7. Handling and storage

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.

8. Exposure controls/personal protection

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
4-methylpentan-2-one	EU OEL (Europe, 4/2004). STEL: 208 mg/m ³ 15 minute/minutes. Form: All forms STEL: 50 ppm 15 minute/minutes. Form: All forms TWA: 83 mg/m ³ 8 hour/hours. Form: All forms TWA: 20 ppm 8 hour/hours. Form: All forms
white spirit	80/1107/EEC (Europe, 2000). TWA: 25 ppm 8 hour/hours. TWA: 145 mg/m ³ 8 hour/hours.

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	: 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	: face shield or safety glasses with side shields.

9. Physical and chemical properties

Physical state	: Liquid.
Density	: Weighted average: 1.85 g/cm ³
Solubility	: Insoluble in cold water, hot water.
Flash point	: Closed cup: 36°C (96.8°F).
Explosion Limits	: 0.5 - 8 vol %
% Solvent by Weight	: Weighted average: 23 %
% Water by Weight	: Weighted average: 0 %
VOC Content	: Weighted average: 430 g/l (CEPE)
TOC Content	: Weighted average: 379 g/l (based on data for: Solvent.)
Solvent Gas	: 0.092 m ³ /l

10. Stability and reactivity

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

Highly reactive or incompatible with the following materials: oxidizing materials, reducing materials and acids.

Reactive or incompatible with the following materials: organic materials, metals and alkalis.

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

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), halogenated compounds, hydrogen fluoride. 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 (colophony). May produce an allergic reaction.

Acute toxicity

Ingredient Name	Test	Result	Route	Species

copper (I) oxide	LD50	470 mg/kg	Oral	Rat
solvent naphtha (petroleum), light arom.	LD50	8400 mg/kg	Oral	Rat
	LC50	2000 ppm (4 hour/hours)	Inhalation	Rat
zinc oxide	LD50	7950 mg/kg	Oral	Mouse
	LDLo	500 mg/kg	Oral	Human
4-methylpentan-2-one	LD50	2080 mg/kg	Oral	Rat
white spirit	LD50	5000 mg/kg	Oral	Rat
	LD50	3000 mg/kg	Dermal	Rabbit
	LC50	>14 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
copper (I) oxide	Asterionella japonica (EC50)	72 hour/hours	0.0127 mg/l
	Atherinops affinis (LC50)	96 hour/hours	0.238 mg/l
	Mysidopsis bahia (LC50)	96 hour/hours	0.164 mg/l
	Neomysis mercedis (LC50)	96 hour/hours	0.071 mg/l
zinc oxide	Daphnia magna (EC50)	48 hour/hours	>1000 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	>320 mg/l
4-methylpentan-2-one	Pimephales promelas (LC50)	96 hour/hours	505 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
ADR/RID Class	UN1263	PAINT	3	III		Remarks H-14
IMDG Class	UN1263	PAINT	3	III		Emergency schedules (EmS) F-E, S-E

PG* : Packing group

15. Regulatory information

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

Symbol : Harmful, Dangerous for the environment

Contains : copper (I) oxide
colophony

Risk Phrases : R10- Flammable.
R22- Harmful if swallowed.
R36/37- Irritating to eyes and respiratory system.
R43- May cause sensitization by skin contact.
R50/53- Very 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 vapour/spray.
S24- Avoid contact with skin.
S29- Do not empty into drains.
S37- Wear suitable gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.

S51- Use only in well-ventilated areas.

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.

Tactile warning of danger : Yes, applicable.

IMO Anti-fouling System Convention Compliant (AFS/CONF/26)

This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Anti-fouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26)

Product Type : hard antifouling (insoluble matrix)

Manufacturer : Hempel A/S

Product Name and/or Code : BLAKE'S GLIDE SPEED 7142T
7142T51170

Colour : Red

Note: This name is shown on the product container. All products in HEMPEL's containers carrying this name comply with the IMO Convention (AFS/CONF/26).

Active ingredients with CAS-Number. : dicopper oxide 1317-39-1

16. Additional information

Full text of R-phrases referred to in the Safety Data Sheet : R11- Highly flammable.
R10- Flammable.
R20- Harmful by inhalation.
R22- Harmful if swallowed.
R65- Harmful: may cause lung damage if swallowed.
R36/37- Irritating to eyes and respiratory system.
R36/37/38- Irritating to eyes, respiratory system and skin.
R43- May cause sensitization by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.