

MATERIAL SAFETY DATA SHEET

MSDS

Last changed: 22/03/2000

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ANTIFOULING SEAPRINCE

1. PRODUCT AND COMPANY

TRADE NAME : ANTIFOULING SEAPRINCE

APPLICATION : Antifouling paint

ART-No : PM3057

PRODUCER/IMPORTER :

Company : JOTUN-HENRY CLARK LTD.

Address : Flixborough, Scunthorpe

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Emergencyphones : Contact the National Poison Center

Contactperson : QA/Environm. dept., JOTUN A/S, NORWAY

Responsible : QA/Environm. dept., JOTUN A/S, NORWAY

2. COMPOSITION OF PRODUCT

No	Ingredients name	CAS-NO	Weight%		Dangerclas./Cmnt.
1	DICOPPER OXIDE	1317-39-1	25-50	N	Xn,22
2	XYLENE, mixed isomers	1330-20-7	10-25	N	Xn,10-20/21-38
3	ROSIN	8050-09-7	2,5-10	N	Xi;Sens,43
4	AROMATIC HYDROCARBONS, C9-C12	64742-95-6	2,5-10	N	XnN,10-37-65-51/53
5	TRICHRESYL PHOSPHATE	1330-78-5	1-2,5	N	Xn,21/22

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment,

3. HAZARD IDENTIFICATION



FLAMMABLE. IRRITATING TO SKIN. RISK OF SERIOUS DAMAGE TO EYES . MAY CAUSE SENSITIZATION BY SKIN CONTACT.

For potential danger for the environment, see section 12.

4. FIRST AID

INHALATION

Keep the patient warm in a quiet place with fresh air. If breathing has stopped, administer artificial respiration. If unconscious place in the recovery position. Seek medical advice.

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water or use an appropriate skin cleaner. Do NOT use solvents or thinners.

EYE CONTACT

Remove any contact lenses. Hold the eyelids apart. Irrigate copiously with clean, fresh water for at least 10 minutes. Seek medical advice if symptoms persist.

INGESTION

DO NOT INDUCE VOMITING. If accidentally swallowed obtain immediate medical attention. Keep at rest. Seek medical advice.

MEDICAL INFORMATION

Risk of chemical pneumonia by aspiration. Keep attention: danger of lung damage. General health examination. Professional evaluation of the work station.

5. FIRE FIGHTING MEASURES**PROPER FIREFIGHTING EQUIPMENT**

Recommended: alcohol resistant foam, CO₂, powders, water spray. Not to be used: water jet.

FIRE AND EXPLOSION HAZARDS

Decomposition products may be a hazard to health. Fire will produce dense black smoke containing hazardous products of combustion (see Section 10).

PERSONAL PROTECTION WHEN FIREFIGHTING

The personal protective equipment required is provided in section 8. Professional fire-fighters are required to use an air-fed system when dealing with major fires.

OTHER INFORMATION

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES**OTHER INFORMATION**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Place in container for disposal according to local regulations (see section 13). Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite and diatomaceous earth. Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environmental Agency.

7. HANDLING AND STORAGE**HANDLING ADVICE**

The Manual Handling Operations Regulations may apply to the handling of containers of this product. Electrical equipment should be protected to appropriate standards. Never use pressure to empty the container, it is not a pressure vessel. Always keep in containers made of the same material as the supply container. For personal protective equipment see Section 8. Smoking, eating and drinking are forbidden in the work area. Avoid inhalation of vapour and spray mist. Avoid skin and eye contact. Use non-sparking tools. Keep container tightly closed. Exclude sources of heat, sparks and open flame. Floors should be electrically conductive. Personnel should wear anti-static clothing and footwear. Always use earth (ground) wire when transferring from one container to another. The product may charge electrostatically. Use explosion-proof electrical equipment. The product should not be used in vicinity of open flames or other sources of ignition. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors.

STORAGE

Containers which are opened should be properly resealed and kept upright to prevent leakage. No smoking. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. Store in a dry, cold and well ventilated place away from sources of heat, ignition and direct sunlight. Observe the label precautions. Store in accordance with the regulations for flammable materials.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OEL s

Ingredients name	CAS-no	OEL value	OEL
DICOPPER OXIDE	1317-39-1	1,0 mg/m ³ ;(Cu)	
XYLENE, mixed isomers	1330-20-7	441,0 mg/m ³ ;Sk 662,0 mg/m ³ ;Sk	LTEL STEL
AROMATIC HYDROCARBONS, C9-C12	64742-95-6	125,0 mg/m ³ 1120,0 mg/m ³	LTEL STEL

RESP. PROTECTION

Use respiratory protective mask with charcoal and dust filter (A2/P2) when spraying this product. When use of roller or brush, then charcoal filter is sufficient.

EYE PROTECTION

Eye protection designed to protect against liquid splashes should be worn.

HAND PROTECTION

Use PVA/viton gloves. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. Never apply barrier cream to contaminated skin.

SKIN PROTECTION

Wear anti-static clothing made of natural fibre or of heat resistant synthetic fibre. When spraying use suit covering the whole body.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.		
Colour:	Dark red. Light red.		
Odour:	Organic solvent.		
Solubility:	Organic solvent.		
Melting point/range:	-	Density:	1,84
Expl. limit LEL-UEL%:	1 - 7 -	Boiling point/range:	138 - 177°C
Flash point:	30°C	pH concentrate:	-
Ignition temp.:	500°C		

10. STABILITY AND REACTIVITY

STABILITY

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

MATERIALS TO AVOID

Keep away from oxidising agents, strongly alkaline and strongly acidic materials to prevent the exothermic reactions.

HAZARDOUS DECOMPOSITION PRODUCTS

In a fire , hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

GENERAL

The product has been tested for acute oral, dermal and inhalation toxicity. It has also been tested for skin and eye irritation.

INHALATION

LC50 >1,98 mg/l 4 h (no deaths at max. attainable concentration). Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous system. Symptoms and signs include headache; dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of smoke (from a fire or from welding on dicopper oxide coated material) may give symptoms like influenza.

SKIN CONTACT

LD50 > 2000 mg/kg. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged contact with skin may cause sensitisation.

EYE CONTACT

Splashes in the eyes may cause irritation and irreversible damage if the eye is not flushed with water.

INGESTION

LD50 >5000 mg/kg. Absorbed by the gastric intestinal system. May cause liver and kidney damage. Accidental ingestion may cause vomiting and abdominal pains. Tricresyl phosphate showed effects on ovaries and testicles in experiments on animals. Risk of chemical pneumonia.

12. ECOLOGICAL INFORMATION

BREAKDOWN

Tricresyl phosphate: Biodegradable. BOD (28 d) = 80%

ACCUMULATION

Aromatic hydrocarbons C9-C12: Potential to bioaccumulate.

ECOTOXICITY

Aromatic hydrocarbons C9-C12: LC50 (fish) = 1-10 mg/l.

Tricresyl phosphate: LC50 (fish) = 4 mg/l. EC50 (Daphnia) = 5,6 mg/l.

13. DISPOSAL

Waste must be disposed of at approved landfill/waste storage or treatment facility. Do not allow into drains or water courses. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

WASTEGROUP

08 01 02 Waste paints and varnish free of halogenated solvents. 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVE, SEALANTS AND PRINTING INKS.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	PAINT
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		IMDG (Sea)	
UN No	1263	Class	3.3
Label	3	Packaging Group	III
EmS	3 - 05	MFAG	310
Marine Pollutant	P	Page	3372

Not ADR-restricted ref. NOTE under E of marginal 2301 (applicable to receptacles of less than 450 litres capacity). ADR for road, RID for rail, IMDG for sea transport and IATA for airtransport. Transport only in accordance with

15. REGULATORY INFORMATION

Classif.:

**COMPOSITION**

DICOPPER OXIDE (25-50), XYLENE, mixed isomers (10-25), ROSIN (2,5-10)

R-PHRASES

R43 May cause sensitization by skin contact. R41 Risk of serious damage to eyes. R38 Irritating to skin. R10 Flammable.

S-PHRASES

S38 In case of insufficient ventilation, wear suitable respiratory equipment. S36/37 Wear suitable protective clothing and gloves. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S23 Do not breathe vapour/spray.

REFERENCES

The product is labelled for supply in accordance with the current issue of CHIP Regulations, and latest version of the approved supply list.

16. OTHER INFORMATION

ISSUED:16/02/2000

INFORMATION SOURCES:

VENDOR NOTES

The information contained in this MSDS is based on the present state of knowledge and current national legislation. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information in this MSDS provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839). Further information and relevant advice can be found in: The Control of Substances Hazardous to Health Regulations 1988 (SI1988:1657). The Highly Flammable Liquids and liquefied Petroleum Gases Regulations 197 (SI 1972:917). The Manual Handling Operations Regulations 1992 (SI 1992:2793). Storage of Flammable Liquids in Containers, HS(G) 51. Storage of Packaged Dangerous Substances, HS(G)71. The selection, use and maintenance of respiratory protective equipment: A practical guide HS(G)53.

USER NOTES

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