

Material Safety Data Sheet according 91/155/EEC

Product Name : **BOAT FLEXO PRIMER**

Date: 21.02.02 Revision date: 11.01.02 page: 1 of 5

1. IDENTIFICATION OF THE PREPARATION AND COMPANY.

Product Name and Code : **BOAT FLEXO PRIMER** 0520-55001

Product use: To prime rubber or flexible material prior to application of Coelan Boat Coating.

Name of the company:

COELAN[®]-FLÜSSIGKUNSTSTOFFE GmbH & Co. KG

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48653 COESFELD

Phone: (+49 2541) 920-0 Fax: (+492541) 920-400

Phone of the company: laboratory Phone:(+492541) 920-270

Emergency-Phone: (06132) 84463

2. COMPOSITION AND INFORMATION ON INGREDIENTS.

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

Cas-No.	Names	Conc.	Symb.	R phrases
1330-20-7	xylene, mixture of isomers	50 - 100	Xn	10-20/21-38
100-41-4	ethylbenzene	10 - 25	Xn F	11-20
872-50-4	N-methyl-2-pyrrolidone	5 - 10	Xi	36/38
123-86-4	n-butyl acetate	2 - 5		10-66-67
9016-87-9	diphenylmethane-4,4'-diisocyanate	10 - 25	Xn	20-36/37/38-42

(See full text of R phrases under section 16)

3. HAZARDS IDENTIFICATION OF THE PREPARATION.

Xn	Harmful
10	Flammable.
21	Harmful in contact with skin.
36/37/38	Irritating to eyes, respiratory system and skin.
42	May cause sensitization by inhalation.

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 patient warm and at rest, if breathing is irregular or 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 10 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 cleanser. Do NOT use solvents or thinners.

Ingestion :

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

Material Safety Data Sheet according 91/155/EEC

Product Name : **BOAT FLEXO PRIMER**

Date: 21.02.02 Revision date: 11.01.02

page: 2 of 5

5. FIRE-FIGHTING MEASURES.

Extinguishing media : recommended : alcohol resistant foam, CO₂, powders, water spray

Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water ways.

6. ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Refer to protective measures listed in sections 7 and 8. 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 water ways. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with US Federal and local regulations.

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 vapor in air and avoid vapor concentration higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all bare electric lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electro-statically: always use grounding leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the non-conducting type. Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapor and spray mist. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty. The container is not a pressure vessel. Always keep product material in the original container. Comply with the health and safety at work laws.

Storage.

Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act. Observe label precautions. Store between 5 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Engineering Measures.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general air circulation. If these are not sufficient to maintain concentrations of particulate and solvent vapor below the OEL, suitable respiratory protection must be worn.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION. Continued,

Exposure Limits.

Occupational exposure limit for :

CAS-No.	Names	STEL	LTEL
1330-20-7	xylene, mixture of isomers	150	100 PPM
100-41-4	ethylbenzene	125	100 PPM
872-50-4	N-methyl-2-pyrrolidone	75	25 PPM
123-86-4	n-butyl acetate	200	150 PPM

Personal Protection.

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection:

For prolonged or repeated contact, use : Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection:

Use safety eyewear designed to protect against splash of liquids. Skin protection:

Personnel should wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical state :	viscous.	Method:
Flash point :	25°C	DIN 53213
Viscosity :	at 23 °C 11 s 4 mm	DIN 53211
Specific gravity/Density:	0.94	
Vapor density :	7 heavier than air.	
Lower explosion limit:	1.0	
Solubility in water :	not soluble	
Volatile Organic Compounds; VOC =	747 g/l	

10. STABILITY AND REACTIVITY.

Stable under recommended storage and handling conditions.(See section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION.

There are no data available on the preparation itself. Exposure to component solvents vapors concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect 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 contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Material Safety Data Sheet according 91/155/EEC

Product Name : **BOAT FLEXO PRIMER**

Date: 21.02.02 Revision date: 11.01.02 page: 4 of 5

12. ECOLOGICAL INFORMATION.

There are no data available on the preparation itself.
The product should not be allowed to enter drains or water ways.

13. DISPOSAL CONSIDERATIONS.

Do not allow into drains or water ways.
EAK-NR. Disposal Name:
080111 Waste paint and varnish containing organic solvents or other dangerous substances.
Empty containers are to be given for disposal . Partially emptied containers are subject to special disposal regulations. In all cases and prior to disposal, check with your local waste regulatory agency.

14. TRANSPORT INFORMATION.

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID: Class: 3 item: 31c
Transport document name: 1263 Paint
Contains: Xylol

IMDG: Class: 3 UN NR. : 1263
EMS : 3-05
Proper shipping name : PAINT
Contains : Xylol
Packaging group : III
Marine pollutant : N/A.

ICAO/IATA: Class: 3 UN NR. : 1263
Proper shipping name : Paint
Contains : Xylol
Packaging group : III

15. REGULATORY INFORMATION.

The requirements of the Classification Packaging and Labeling of Dangerous Substances Regulations.
The product is labeled as follows :

Danger classification :
Xn Harmful

Contains:
xylene, mixture of isomers
diphenylmethane-4,4'-diisocyanate

R phrases:
10 Flammable.
21 Harmful in contact with skin.
36/37/38 Irritating to eyes, respiratory system and skin.
42 May cause sensitization by inhalation.

15. REGULATORY INFORMATION. Continued,

S phrases:

- 2 Keep out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well ventilated areas.
- 23 Do not breathe vapor.

other phrases:

- 91 Contains isocyanates. See information supplied by the manufacturer.
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16. OTHER INFORMATION.

Full text of R phrases appearing in section 2 :

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 38 Irritating to skin.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36/38 Irritating to eyes and skin.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapors may cause drowsiness and dizziness.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42 May cause sensitization by inhalation.

The information contained in this Material Safety Data Sheet (MSDS) is based on the present state of knowledge and on current EEC and national law.

This MSDS is meant as a description of the safety requirements of the product and is not to be considered as a guarantee of the products' properties. The data in this MSDS does not establish a legally valid basis or foundation for any type of damage or liability claim.

As the users technical skill and project working conditions are beyond our knowledge and control, the product is not to be used for any other purposes than those specified under section 1, "Product Use", of this MSDS, without first obtaining written instructions and acknowledgment from the manufacturer.

The user is responsible for ensuring that the requirements and obligations of all relevant legislation and laws are complied with.

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