Material Safety Data Sheet

BEA369

INTERSMOOTH 360 ECOLOFLEX SPC DARK RED

Version No: 6 **Revision Date:** 17/11/2003

1. Identification of the preparation and company

Preparation/Product Name	INTERSMOOTH 360 ECOLOFLEX SPC DARK RED
Product Code	BEA369
HSE Number	6057
Intended use	See Technical Data Sheet. For professional use only.
Application Method	See Technical Data Sheet.
Company Name	International Coatings Stoneygate Lane Felling. Gateshead Tyne & Wear NE10 0JY UK
Telephone No.	+44 (0)191 4696 111
Fax No.	+44 (0)191 4383 711
24 hour Emergency Telephone No.	+44 (0)191 4696 111
Official Advisory Body Telephone No.	+44 (0) 870 600 6266 For Advice to Doctors & Hospitals only

2. Composition/information on ingredients

This product contains the following substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations 1999 (2) or have occupational exposure limits detailed in EH40.

Ingredient	EINECS	Concentration Label	Symbol(s)	Risk phrases (*)
1-Butoxy-2-propanol	225-878-4	01-02.5	Xi	R36/38
4-methylpentan-2-one	203-550-1	02.5-10	F,Xn	R11, R20, R36/37, R66
Butan-1-ol	200-751-6	02.5-10	Xn	R10,R22,R37/38,R41,R67
Copper(i)oxide	215-270-7	25-50	Xn	R22
Ethylbenzene	202-849-4	02.5-10	F,Xn	R11, R20
Methanol	200-659-6	00-01	F,T	R11,R23/24/25,R39/23/24/25
Xylene	215-535-7	10-25	Xn	R10,R20/21,R38
Zinc pyrithione	236-671-3	02.5-10	T,N	R22, R23, R38,R41,R50

* The full texts of the phrases are shown in section 16.

Your attention is drawn to the disclaimer on the Product Data Sheet which with this Safety Data Sheet and the package labelling comprise an integral information system about this product. Copies of the Product Data Sheet are available from International Coatings on request or from our Internet sites : www.yachtpaint.com , www.international-marine.com , www.international-pc.com

AKZO NOBEL

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3. Hazard identification of the product

Flammable.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes and skin.

Further information is given in section 11.

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, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye Contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion

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

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5. Fire-fighting measures

Recommended extinguishing media; alcohol resistant foam, CO^2. powder, water spray.

Do not use; water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmetal Protection Agency should also be informed.

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7. Handling and storage

Handling

This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

In Storage

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

In Use

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

Storage

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.

The requirements of the Highly Flammable Liquids and Liquified Petroleum Gases Regulations apply if the flashpoint is between 21°C and 32°C.

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8. Exposure controls and personal protection

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Exposure Limits

The following occupational exposure limits have been established by the Health and Safety Executive as published in EH40.

Material	Short term (15 min. ave)		Long term (8hr time weighted average)		
	ppm	mg/m³	ppm	mg/m³	
4-methylpentan-2-one	100	416	50	208	S +
Butan-1-ol	75	231	50	154	S +
Ethylbenzene	125	552	100	441	S +
Methanol	250	333	200	266	S +
Xylene	100	441	50	220	S +

(M) Maximum Exposure Limit
(S) Occupational Exposure Standard
(R) Suppliers Recommended Limit
(+) There is a risk of absorption through unbroken skin.

Personal Protection

Respiratory Protection

When concentrations exceed the exposure limits shown above workers must wear appropriate respirators approved in accordance with Directive 89/656/EEC and the Personal Protection Equipment Regulations.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids. Eyewear should comply with British Standard 2092.

Hand Protection

Nitrile rubber gloves should be worn during mixing and application.

Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

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9. Physical and chemical properties

Physical State	Liquid
Flash Point (deg C)	22
Viscosity (cSt)	-
Specific Gravity	1.59
Vapour Density	Heavier than air.
Lower Explosive Limit	1.1
Solubility in Water	Immiscible
R.A.Q. to ventilate to 10% of the LEL (m ³/l)	89

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, carbon dioxide, oxides of nitrogen and smoke.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

11. Toxicological information

There are no data available on the product itself.

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits 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. Symptoms include headache, nausea, 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 dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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12. Ecological information

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 2 for details

13. Disposal considerations

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

Transport only in accordance with the following regulations:

ADR/RID UN1263 Paint, 3, III, special provision SP640E

IMDG	Class/Div	3	Subsidiary Class
	Proper Shipping Name	Paint	
	UN No	1263	
	Ems	F-E,S-E	
	Packaging Group	III	
	Marine Pollutant	No	
ICAO/IATA	Shipping Name	Paint	
	Class	3	
	UN No	1263	
	Packaging Group	III	

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15. Regulatory information

In accordance with EC Directive 88/379/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations SI /3247/1994 this product is labelled as follows:

Symbol(s)

Harmful

Contains;

Copper(i)oxide

Xylene

Zinc pyrithione

R. Phrases;

Flammable.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes and skin.

S. Phrases;

Do not breathe vapour/spray.

Wear suitable protective clothing and gloves.

Use only in well-ventilated areas.

P. Phrases;

DO NOT BREATHE SPRAY MIST. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS OF A CONTRASTING COLOUR TO THE PRODUCT BEING APPLIED, UNDERNEATH A DISPOSABLE COVERALL WITH HOOD), SUITABLE GLOVES, AND IMPERVIOUS FOOTWEAR THAT PROTECTS THE LOWER LEG. WEAR SUITABLE RESPIRATORY EQUIPMENT such as air-fed respiratory protective equipment with combined protective helmet and visor when spraying. UNPROTECTED PERSONS SHOULD BE KEPT OUT OF TREATMENT AREAS. WEAR SUITABLE RESPIRATORY EQUIPMENT such as FFP3 (or an equivalent standard) when working in the vicinity of the spray plume. DISPOSE OF PROTECTIVE GLOVES after use

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16. Other information

IMO Antifouling Convention (AFS/CONF/26) Compliant

Antifouling Type - TBT Free Self Polishing Copolymer
Active Ingredients - Cuprous Oxide CAS No. 1317-39-1, Zinc Pyrithione CAS No. 13463-41-7
Manufacturer - International Coatings Ltd.

The information on this MSDS is based upon the present state of our knowledge and on current EEC and national laws.

The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The information in this Health & Safety Data Sheet is required pursuant to Directive 91/155/EEC and the Chemicals (Hazard Information & Packaging for Supply) Regulations 1994.

The full text of the R phrases appearing in section 2 is:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R22 Harmful if swallowed.

R23 Toxic by inhalation.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/37 Irritating to eyes and respiratory system.

R36/38 Irritating to eyes and skin.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms.

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness