



SAFETY DATA SHEET

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Pumashield (Resin Component)

Revision 4
Revision date 19-Mar-2007

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Pumashield (Resin Component)
Company Resdev Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Bisphenol A-(epichlorhydrin) (reaction product)	20 - 30%	25068-38-6	500-033-5	Xi; R36/37/38 R43 N; R51/53
2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	1 - 10%	108-65-6	203-603-9	R10 Xi; R36
Nonylphenol	1 - 10%	25154-52-3	246-672-0	Repr Cat 3; R62 Repr Cat 3; R62 Xn; R22 C; R34 N; R50/53
Glycidylether of a C12/C14-alcohol mixture	1 - 10%	68609-97-2	271-846-8	Xi;R36 Xi;R38 Xi;R43 N;R51/53
Bisphenol F - epichlorhydrin resin with Number Average Molecular Weight < 700	1 - 10%	9003-36-5		Xi;R36 Xi;R38 Xi;R43 N;R51/53
C.I. Pigment Red 101 (Rouge respirable)	1 - 10%	1309-37-1		

3. HAZARDS IDENTIFICATION

Main hazards Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Skin contact Seek medical attention if irritation or symptoms persist. Wash off immediately with plenty of soap and water. Remove contaminated clothing.

Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation Move the exposed person to fresh air.

Ingestion Immediate medical attention is required. DO NOT INDUCE VOMITING.

5. FIRE FIGHTING MEASURES

Extinguishing media Use as appropriate: carbon dioxide (CO₂). Sand.
Do NOT use dry chemical. Water jet, foam, ..

Fire hazards Burning produces irritating, toxic and obnoxious fumes.

Protective equipment Wear: Self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Do not flush into surface water. Do not let product contaminate subsoil.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean area thoroughly with detergent.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin.
Storage	Store at temperatures between 10 °C and 30 °C. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m3: 274 WEL 15 min limit mg/m3: 548
C.I. Pigment Red 101 (Rouge respirable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
C.I. Pigment Red 101 (Rouge total inhalable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -
C.I. Pigment Red 101 (Iron oxide, fume (as Fe))	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 5 WEL 15 min limit mg/m3: 10

Engineering measures	Ensure adequate ventilation of the working area.
Occupational exposure controls	Keep away from food, drink and animal feedingstuffs.
Respiratory protection	Wear: Suitable respiratory equipment.
Hand protection	Nitrile rubber gloves. Butyl rubber gloves.
Eye protection	Approved safety goggles.
Protective equipment	Protect clothing from contact with the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Cream.
Odour	Slight.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heating produces hazardous fumes.
Materials to avoid	Strong bases. Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data is available on this product.
Sensitization	May cause sensitisation by skin contact.

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12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available on this product.
Degradability Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.
Disposal of packaging Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN	3082	Packing group	III
Class	9	Hazard ID	90
Proper Shipping	ENVIRONMENTALLY		
Name	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		

IMDG

UN	3082	Packing group	III
Class	9	Marine pollutant	.
EmS Code	F-A S-F		

IATA

UN	3082	Packing group	III
Class	9	Subsidiary risk	-
Packing Instruction	914	Maximum quantity	450 L
(Cargo)			
Packing Instruction	914	Maximum quantity	450 L
(Passenger)			

15. REGULATORY INFORMATION

Labelling P5 - Contains epoxy constituents. See information supplied by the manufacturer.

Symbols Xi - Irritant; N - Dangerous for the environment



Risk phrases
R36/38 - Irritating to eyes and skin.
R43 - May cause sensitisation by skin contact.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases
S24 - Avoid contact with skin.
S29 - Do not empty into drains.
S37 - Wear suitable gloves.

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16. OTHER INFORMATION

Text of risk phrases in Section 2	R10 - Flammable. R22 - Harmful if swallowed. R34 - Causes burns. R36 - Irritating to eyes. R36/37/38 - Irritating to eyes, respiratory system and skin. R38 - Irritating to skin. R43 - May cause sensitisation by skin contact. 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. R62 - Possible risk of impaired fertility.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
Revision	This document differs from the previous version in the following areas: [] - [].