



SAFETY DATA SHEET

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Pumaflow (Hardener)

Revision 0
Revision date

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Pumaflow (Hardener)
Company Resdev Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
N-aminoethylpiperazine	1 - 10%	140-31-8	205-411-0	Xn; R21/22 C; R34 R43 R52/53
2,4,6-Tris(dimethylaminomethyl)phenol	1 - 10%	90-72-2	202-013-9	Xn; R22 Xi; R36/38
Amino terminated polyether	1 - 10%	9046-10-0		C; R34/41
Benzene-1,3-dimethanamine	1 - 10%	1477-55-0	216-032-5	C; R35 Xn; R20/22
Dodecylphenol	20 - 30%	121158-58-5		C; R35 N; R50/53
tert-BUTYL PHENOL	20 - 30%	98-54-4		Xi; R36/38 N; R51/53
trimethylhexane-1,6-diamine	1 - 10%	25620-58-0		C; R34 Xn; R22 Xi; R43 R52/53

3. HAZARDS IDENTIFICATION

Main hazards Causes severe burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

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

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 DO NOT INDUCE VOMITING. Immediate medical attention is required. If unconscious place in the recovery position.

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Sand. Use extinguishing media appropriate to the surrounding fire conditions. Alcohol resistant foam. Do NOT use ... Water jet.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment.
Environmental precautions	Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Do not flush into surface water.
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. Use in a well ventilated area. Do not breathe gas/fumes/vapour/spray. Wear suitable protective equipment. Do not eat, drink or smoke in areas where this product is used or stored.
Storage	Store at temperatures above 10 °C. Store at temperatures below 30 °C. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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. Neoprene gloves.
Eye protection	Approved safety goggles.
Protective equipment	Protect clothing from contact with the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Amber.
Odour	Characteristic.
Boiling point	> 200°C
Viscosity	130 cps 25

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heating produces hazardous fumes.
Materials to avoid	Acids. Reducing agents. Oxidising agents. Bases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	ORL RAT LD50 > 1000 mg/kg.
Corrosivity	Irritating to eyes.
Sensitization	May cause sensitisation by skin contact.
Mutagenic effects	Adverse mutagenic and teratogenic effects have been found in laboratory animals.
Reproductive toxicity	Adverse reproductive effects have been found in laboratory animals.

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12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available on this product.

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

Disposal of packaging Empty containers can be sent for disposal or recycling.

14. TRANSPORT INFORMATION

ADR/RID

UN	2735	Packing group	III
Class	8	Hazard ID	80
Proper Shipping Name	AMINES, LIQUID, CORROSIVE		
Name	N.O.S.		

IMDG

UN	2735	Packing group	III
Class	8	Marine pollutant	.
EmS Code	F-A S-B		

IATA

UN	2735	Packing group	III
Class	8	Subsidiary risk	-
Packing Instruction (Cargo)	820	Maximum quantity	60 L
Packing Instruction (Passenger)	818	Maximum quantity	5 L

15. REGULATORY INFORMATION

Labelling The product is classified in accordance with 67/548/EEC.

Symbols C - Corrosive; N - Dangerous for the environment



Risk phrases

R35 - Causes severe burns.
R43 - May cause sensitisation by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S24 - Avoid contact with skin.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of [].
S29 - Do not empty into drains.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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16. OTHER INFORMATION

Text of risk phrases in

R20/22 - Harmful by inhalation and if swallowed.

Section 2

R21/22 - Harmful in contact with skin and if swallowed.

R22 - Harmful if swallowed.

R34 - Causes burns.

R35 - Causes severe burns.

R36/38 - Irritating to eyes and 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.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.