



## SAFETY DATA SHEET

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### Pumexpand V (Hardener Component)

Revision 0  
Revision date

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** Pumexpand V (Hardener Component)  
**Company** Resdev Ltd  
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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
N-aminoethylpiperazine	40 - 50%	140-31-8	205-411-0	Xn; R21/22 C; R34 R43 R52/53
Nonylphenol	40 - 50%	25154-52-3	246-672-0	Repr Cat 3; R62 Repr Cat 3; R62 Xn; R22 C; R34 N; R50/53
Glycerol (Glycerol, mist)	1 - 10%	56-81-5	200-289-5	

#### 3. HAZARDS IDENTIFICATION

**Main hazards** Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Possible risk of harm to the unborn child.

#### 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

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

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear suitable protective equipment.
<b>Environmental precautions</b>	Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Do not flush into surface water.
<b>Clean up methods</b>	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean area thoroughly with detergent.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	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

### Exposure limits

Glycerol	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 10
(Glycerol, mist)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : -

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

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

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## 11. TOXICOLOGICAL INFORMATION

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

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data is available on this product.
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## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Dispose of in compliance with all local and national regulations.
<b>Disposal of packaging</b>	Empty containers can be sent for disposal or recycling.

## 14. TRANSPORT INFORMATION

### ADR/RID

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

### IMDG

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

### IATA

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


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## 15. REGULATORY INFORMATION

<b>Labelling</b>	The product is classified in accordance with 67/548/EEC.
<b>Symbols</b>	C - Corrosive; N - Dangerous for the environment 
<b>Risk phrases</b>	R21/22 - Harmful in contact with skin and if swallowed. R34 - Causes 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. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child.
<b>Safety phrases</b>	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).

## 16. OTHER INFORMATION

<b>Text of risk phrases in Section 2</b>	R21/22 - Harmful in contact with skin and if swallowed. R22 - Harmful if swallowed. R34 - Causes 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. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 - Possible risk of impaired fertility.
<b>Further information</b>	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.