



## SAFETY DATA SHEET

### RES Extreme

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name	RES Extreme
UFI	UFI: V6E0-80YN-100Q-X2E6
Superconcentrated Detergent	Powerful Cleaner & Degreaser

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Detergent.
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##### 1.3. Details of the supplier of the safety data sheet

Supplier	Rozone Ltd Queen Street Darlaston Wednesbury West Midlands WS10 8JF Tel: 0121 526 8181 info@rozone.co.uk
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##### 1.4. Emergency telephone number

Emergency telephone	+44 (0) 121 526 8181 (Mon-Fri 09:00-17:00)
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified

##### 2.2. Label elements

###### Hazard pictograms



Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.

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<b>Precautionary statements</b>	<p>P260 Do not breathe vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p>
<b>UFI</b>	UFI: V6E0-80YN-100Q-X2E6
<b>Contains</b>	SODIUM METASILICATE PENTAHYDRATE, SODIUM HYDROXIDE
<b>Detergent labelling</b>	< 5% amphoteric surfactants, < 5% non-ionic surfactants, < 5% polycarboxylates
<b>Supplementary precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>1 PROPOXY-2-PROPANOL</b> <span style="float: right;"><b>5-10%</b></span>
CAS number: 1569-01-3                      EC number: 216-372-4
<b>Classification</b> Flam. Liq. 3 - H226 Eye Irrit. 2 - H319
<b>SODIUM METASILICATE PENTAHYDRATE</b> <span style="float: right;"><b>1-5%</b></span>
CAS number: 10213-79-3                      EC number: 229-912-9
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
<b>DIPROPYLENE GLYCOL METHYL ETHER</b> <span style="float: right;"><b>1-5%</b></span>
CAS number: 34590-94-8                      EC number: 252-104-2
<b>Classification</b> Not Classified

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<b>BETA-ALANINE, N-(2-CARBOXYETHYL)-N-DODECYL</b>	<b>1-5%</b>
CAS number: 3655-00-3	
<b>Classification</b> Eye Irrit. 2 - H319	
<b>SODIUM HYDROXIDE</b>	<b>1-5%</b>
CAS number: 1310-73-2	EC number: 215-185-5
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318	
<b>AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES</b>	<b>&lt;1%</b>
CAS number: 68955-55-5	EC number: 931-292-6
M factor (Acute) = 10	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical advice/attention if you feel unwell.
<b>Inhalation</b>	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention immediately. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing. It is important to remove the substance from the skin immediately. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure. Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed. Burning sensation in mouth.
<b>Skin contact</b>	Chemical burns. Pain. Redness.
<b>Eye contact</b>	Chemical burns. Corneal damage. Pain. Redness. Visual disturbances, including blurred vision.

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### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Not known. Contact with aluminium and its alloys will yield hydrogen gas. Where this has occurred in an enclosed space a significant explosion hazard may exist.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid or minimise the creation of any environmental contamination.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage.

#### 6.4. Reference to other sections

**Reference to other sections** See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13. For personal protection, see Section 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Corrosive storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

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### DIPROPYLENE GLYCOL METHYL ETHER

Long-term exposure limit (8-hour TWA): 50 ppm

### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### 1 PROPOXY-2-PROPANOL (CAS: 1569-01-3)

<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 82.5 mg/kg/day Workers - Inhalation; Long term systemic effects: 263 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 36 mg/kg/day Consumer - Inhalation; Long term systemic effects: 38 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 11 mg/kg/day
<b>PNEC</b>	- marine water; 0.01 mg/l - Intermittent release; 1 mg/l - STP; 4 mg/l - Sediment (Freshwater); 0.386 mg/kg/day - Sediment (Marinewater); 0.0386 mg/kg/day - Soil; 0.0185 mg/kg/day

#### SODIUM METASILICATE PENTAHYDRATE (CAS: 10213-79-3)

<b>DNEL</b>	Workers - Dermal; Long term : 1.49 mg/kg/day Workers - Inhalation; Long term : 6.22 mg/m <sup>3</sup> Consumer - Dermal; Long term : 0.74 mg/kg/day Consumer - Inhalation; Long term : 1.55 mg/m <sup>3</sup> Consumer - Oral; Long term : 0.74 mg/kg/day
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#### DIPROPYLENE GLYCOL METHYL ETHER (CAS: 34590-94-8)

<b>DNEL</b>	Industry - Dermal; Long term : 65 mg/kg/day Industry - Inhalation; Long term : 310 mg/m <sup>3</sup> Consumer - Dermal; Long term : 15 mg/kg/day Consumer - Inhalation; Long term : 37.2 mg/m <sup>3</sup> Consumer - Oral; Long term : 1.67 mg/kg/day
<b>PNEC</b>	- Fresh water; 19 mg/l - marine water; 1.9 mg/l - STP; 4168 mg/l - Sediment (Freshwater); 70.2 mg/kg - Sediment (Marinewater); 70.2 mg/kg - Soil; 2.74 mg/kg - Intermittent release; 19 mg/l

#### AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES (CAS: 68955-55-5)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 15.5 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 11 mg/kg Consumer - Inhalation; Long term systemic effects: 3.8 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 5.5 mg/kg Consumer - Oral; Long term systemic effects: 0.44 mg/kg
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### 8.2. Exposure controls

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### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment that provides appropriate eye and face protection should be worn.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Characteristic.
pH	pH (concentrated solution): >12.5
Relative density	1.038 - 1.048 g/mL @ 20°C

#### 9.2. Other information

Other information	No information required.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	This material will corrode aluminium and its alloys at a significant rate. Aluminium structures may be weakened. The reaction releases hydrogen gas which can present an explosion hazard in enclosed spaces.
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#### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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#### 10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with acids. Avoid contact with aluminium and its alloys.
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### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with aluminium and its alloys. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Inhalation** May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

**Ingestion** May cause burns in mucous membranes, throat, oesophagus and stomach.

**Skin contact** Causes severe skin burns and eye damage.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** Not classified for environmental hazards.

### 12.2. Persistence and degradability

**Persistence and degradability** The product contains inorganic substances which are not biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water. The product is miscible with water. May spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1760

**UN No. (IMDG)** 1760

**UN No. (ICAO)** 1760

**UN No. (ADN)** 1760

### 14.2. UN proper shipping name

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<b>Proper shipping name (ADR/RID)</b>	CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE, SODIUM HYDROXIDE)
<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE, SODIUM HYDROXIDE)
<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE, SODIUM HYDROXIDE)
<b>Proper shipping name (ADN)</b>	CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE, SODIUM HYDROXIDE)

### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID classification code</b>	C9
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>ICAO class/division</b>	8
<b>ADN class</b>	8

### Transport labels



### 14.4. Packing group

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>ADN packing group</b>	III

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

<b>EmS</b>	F-A, S-B
<b>ADR transport category</b>	2
<b>Emergency Action Code</b>	2X
<b>Hazard Identification Number (ADR/RID)</b>	80
<b>Tunnel restriction code</b>	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**SECTION 15: Regulatory information**

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 as amended. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 as amended Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Complies with Regulation (EC) 1907/2006 as amended including regulation 2020/878

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	11/09/2023
<b>Revision</b>	5
<b>Supersedes date</b>	15/02/2023
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.