



SAFETY DATA SHEET RES Power HD

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

1.1. Product identifier

Product name RES Power HD
Superconcentrated Detergent Heavy Duty Cleaner

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

Identified uses Detergent.

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

1.4. Emergency telephone number

Emergency telephone +44 (0) 121 526 8181 (Mon-Fri 09:00-17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Met. Corr. 1 - H290
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 H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

RES Power HD

Precautionary statements	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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>
Contains	SODIUM METASILICATE PENTAHYDRATE, POLY(OXY-1,2-ETHANEDIYL), α -(2-PROPYLHEPTYL)-w-HYDROXY, Amines, C12-14-alkyldimethyl, N-oxides
Detergent labelling	< 5% anionic surfactants, < 5% non-ionic surfactants
Supplementary precautionary statements	<p>P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P310 Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up. 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

SODIUM METASILICATE PENTAHYDRATE	5-10%
CAS number: 10213-79-3 EC number: 229-912-9	
Classification Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
DIPROPYLENE GLYCOL METHYL ETHER	1-5%
CAS number: 34590-94-8 EC number: 252-104-2	
Classification Not Classified	
POLY(OXY-1,2-ETHANEDIYL), α-(2-PROPYLHEPTYL)-w-HYDROXY	1-5%
CAS number: 160875-66-1	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	

RES Power HD

Amines, C12-14-alkyldimethyl, N-oxides	1-5%
CAS number: 308062-28-4	
M factor (Acute) = 1	
Classification 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

Inhalation	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Get medical attention immediately. DO NOT induce vomiting. Get medical attention immediately.
Skin contact	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.
Eye contact	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

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

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

Notes for the doctor	Treat symptomatically.
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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

RES Power HD

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.

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.

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.

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.

Usage description

RES Power HD Usage

1. Always test an inconspicuous area first to determine surface compatibility and to establish an effective dilution rate.
2. Remove any loose contamination with a dry wipe or brush.
3. Apply to the contaminated surface.
4. Leave to work, agitating if necessary with white pad or cloth.
5. Re-apply if necessary.
6. Rinse or wipe with a wet cloth or clean with water.
7. Change working solutions frequently to ensure consistent cleaning results.

Dilution:

Light Soiling: 5% (20:1)

Heavy to Medium Soiling: 20% (5:1)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DIPROPYLENE GLYCOL METHYL ETHER

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

Ingredient comments WEL = Workplace Exposure Limits

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

RES Power HD

DNEL	Workers - Dermal; Long term : 1.49 mg/kg/day
	Workers - Inhalation; Long term : 6.22 mg/m ³
	Consumer - Dermal; Long term : 0.74 mg/kg/day
	Consumer - Inhalation; Long term : 1.55 mg/m ³
	Consumer - Oral; Long term : 0.74 mg/kg/day

DIPROPYLENE GLYCOL METHYL ETHER (CAS: 34590-94-8)

DNEL	Industry - Dermal; Long term : 65 mg/kg/day
	Industry - Inhalation; Long term : 310 mg/m ³
	Consumer - Dermal; Long term : 15 mg/kg/day
	Consumer - Inhalation; Long term : 37.2 mg/m ³
	Consumer - Oral; Long term : 1.67 mg/kg/day

PNEC	- 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

8.2. Exposure controls

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	Yellow.
Odour	Characteristic.
pH	pH (concentrated solution): >12.5

RES Power HD

Relative density 1.047 - 1.057 @ 20°C

9.2. Other information

Other information No information required.

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.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

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.

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 (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 27,472.53

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

Biodegradation Not determined.

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.

RES Power HD

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

Not applicable.

UN No. (ADR/RID) 1719

UN No. (IMDG) 1719

UN No. (ICAO) 1719

UN No. (ADN) 1719

14.2. UN proper shipping name

Not applicable.

Proper shipping name (ADR/RID) CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE)

Proper shipping name (IMDG) CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE)

Proper shipping name (ICAO) CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE)

Proper shipping name (ADN) CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM METASILICATE PENTAHYDRATE)

14.3. Transport hazard class(es)

Not applicable.

ADR/RID class 8

ADR/RID classification code C5

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

Not applicable.

RES Power HD

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(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

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

National regulations 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.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	25/03/2022
Revision	5
Supersedes date	23/05/2016

RES Power HD

Hazard statements in full

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.
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.