

Safety Data Sheet

(in accordance to Commission Regulation No. 830/2015/EC)

Date of elaboration: 6.1.2023
Date of revision: -

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of product

IUPAC/ international chemical name -

Trade name: **PowerXtender**

CAS: -

EINECS/ELINCS: -

1.2 Identified use: Professional use: battery desulphation
Consumer use: battery desulphation

Uses advised against: -

1.3 Supplier/Producer **PowerXtender, s.r.o.**

Street, No.: Pribinova 20

Zip Code: 811 09

City: Bratislava

State: Slovakia

Phone:

Fax: -

E-mail: info@powerxtender.io

1.4 Emergency number:

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification in accordance to EP and Council Regulation 1272/2008 CLP **GHS05 Danger
Eye Dam.1, H318**

2.2 Label elements

Symbol

Signal word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P270 Do not eat, drink, or smoke when using this product.
 P261 Avoid breathing vapours/spray
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/container in accordance with current regional legislation as dangerous waste.

2.3 Other hazards

Contains: hydrogen peroxide

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical name	hydrogen peroxide
Concentration	< 25 %
CAS	7722-84-1
EC	231-765-0
Registration No.	01-2119485845-22-xxxx
Classification	GHS03,05,07 Ox. Liq. 1 Acute Tox. 4 Skin Corr. 1A
H-statements	H271 H302 H332 H314
Signal word	Danger
Occupational exposure limits	-
PBT/vPvB	-
Other	<i>Specific limits:</i> <i>Skin Corr. 1B; H314: 50% ≤ C < 70%</i> <i>Skin Corr. 1A; H314: C ≥ 70%</i> <i>Skin Irrit. 2; H315: 35% ≤ C < 50%</i> <i>Eye Dam. 1; H318: 8% ≤ C < 50%</i> <i>Eye Irrit. 2; H319: 5% ≤ C < 8%</i> <i>STOT SE 3; H335: C ≥ 35%</i> <i>Ox. Liq. 1; H271: C ≥ 70%</i> <i>Ox. Liq. 2; H272: 50% ≤ C < 70%</i>

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove affected person from area to fresh air.
Eye	Immediately rinse the eyes with open eyelids for 10-15 minutes with water flow. Seek medical advice!
Skin	Take off contaminated clothing immediately. Rinse the affected body parts with water. Treat with repair cream.

Ingestion Rinse the mouth with water. Do not induce vomiting! Seek medical assistance!

4.2 Most important symptoms, both acute and delayed Causes serious eye damage. Inhalation of vapours in high concentration may cause irritation of respiratory system; in case of longer inhalation, there is a risk of pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed In case of an accidental ingestion, penetration into eyes, or with difficulty after vapour inhalation, bring the affected person to a doctor immediately.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing means **suitable** water fog
unsuitable all other extinguishing media

5.2 Special hazards arising from the substance or mixture In case of overheating, there is an oxygen formation – risk of fire and explosion.

5.3 Advice for fire-fighters Protective clothing, protective gloves, shoes, insulating breathing apparatus. Containers must be immediately removed from the proximity of fire or water-cooled.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal safety precautions, protective equipment, and emergency procedures

Individual protective measures, personal protective equipment Avoid entry of unprotected persons. Use personal protective equipment - protective clothing, shoes, gloves, protective shield or glasses. Ventilate the closed area. Remove all sources of open fire or burning. No smoking. Remove all incompatible substances.

Thermal danger Contains hydrogen peroxide, which is an oxidizing substance and may cause fire in contact with an inflammable material.

6.2 Environmental safety measures Avoid leakage into sewage (wastewater treatment facility), soil, and water.

6.3 Methods and material for containment and cleaning up Re-pump into a suitable inert labelled container. Fill up residues with a non-flammable absorption material and take away to a permitted facility for disposal. Substance residues may be washed down the drain after being diluted with plenty of water.

6.4 Reference to other sections personal protective equipment: see section 8
More information: see section 10.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling It is necessary to use personal protective equipment. Eating, drinking, and smoking are prohibited while working. Provide for thorough ventilation of working premises. A shower, washbasin, first-aid kit, and eye drops have to be available. Use clean containers only. Never return the product to be reused.

7.2 Conditions for safe storage, including any incompatibilities Store in a cool, dry and well ventilated place, out of reach of sources of heat and solar radiation, at temperatures from 0°C to +20°C. Do not store together with flammable materials.

7.3 Specific end use(s) chemical product for car battery production

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters (OEL) -

DNEL workers **hydrogen peroxide:**
inhalation (short time exposure, local effect): 3 mg/m³ *
inhalation (long time, repeated exposure, local effect): 1,4 mg/m³ *

DNEL population data not relevant

8.2 Exposure controls

Respiratory control: required in case of insufficient ventilation

Eye protection: protective glasses or protective shield

Hand protection: protective gloves (EN374)
butyl rubber (0,7 mm), natural rubber (1 mm), nitril rubber (0,33 mm), neoprene, polyethylene.
Penetrating time: > 480 min.

Skin protection: protective clothing and rubber boots

Environmental exposure controls (PNEC)

hydrogen peroxide:
sweet water: 0,0126 mg/l *
marine water: 0,0126 mg/l *
sweet water sediment: 0,047 mg/kg *
marine water sediment: 0,047 mg/kg *
STP: 4,66 mg/l *

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	inodorous
Odour threshold	not applicable
pH	not applicable
Melting point/freezing point [°C]	- 0,43 (<i>hydrogen peroxide</i>)*
Initial boiling point and boiling range [°C]	150 (<i>hydrogen peroxide</i>)*
Flash point [°C]	not applicable
Evaporation rate	299 Pa/25°C/100% (<i>hydrogen peroxide</i>)
Flammability	not applicable
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable
Lower explosive limit	not applicable
Upper explosive limit	not applicable
Oxidising properties	not applicable
Vapour pressure [hPa]	not applicable
Vapour density	not applicable
Relative density [g.cm ⁻³]	1,095 (at 20°C)

Water solubility [g.l ⁻¹]	miscible
Solubility in solvents [g.l ⁻¹]	not applicable
Partition coefficient n-octanol/water	not applicable
Viscosity	not applicable
9.2 Other information	-

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	data not available
10.2 Chemical stability	Stable under recommended conditions of storage and use.
10.3 Possibility of hazardous reactions	In case of contact with incompatible materials
10.4 Conditions to avoid	high temperature, light, impurities (catalyse decomposition)
10.5 Incompatible materials	Oxides and hydroxides of manganese, iron, cobalt, nickel, lead and mercury Precious metals – platinum, osmium, palladium, rhodium, silver and gold flammable materials, organic materials, metal oxides, alkalis reducing agents, acetone (explosive mixture formation)
10.6 Hazardous decomposition products	oxygen, hydrogen

SECTION 11. TOXIKOLOGICAL INFORMATION

Acute toxicity LD₅₀/LC₅₀	Oral	ATEmix: > 6000 mg/kg <i>hydrogen peroxide</i> : < 1270 mg/kg/4hour/rat)*
	Dermal	data not available
	Inhalation	ATEmix: > 50 mg/l <i>hydrogen peroxide</i> : ATE: 11 mg/l
Skin corrosion/irritation		data not available
Eye damage/irritation		Causes serious eye damage. (calculation)
Sensitisation	Skin	data not available
	Respiratory system	data not available
Mutagenity		no evidence
Reproduction toxicity		no evidence
Carcinogenity		no evidence
STOT SE		data not available
STOT RE		data not available
Aspiration toxicity		data not available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity for water organisms	data not available
12.2 Persistence and degradability	decomposition within several minutes up to 24 h
12.3 Bioaccumulative potential	data not available
12.4 Mobility in soil	data not available
12.5 Results of PBT and vPvB assessment	data not available.
12.6 Other adverse effects	-

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Waste, contaminated absorbent material and contaminated packaging dispose in accordance with current regional legislation as dangerous waste (incineration plant). Before discharging into the wastewater treatment facility, it is necessary to dilute the waste with water. EU Waste Catalogue Number: 160903
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SECTION 14. TRANSPORT INFORMATION

ADR/RID:

UN number	2984
UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)
Transport hazard class(es)	5.1 O1
Packing group	III
Environmental hazards	-
Special precautions for user	Safety label: 5.1
Transport in bulk	Limited quantity: 5l Tunnel restriction code: E Hazard identification No.: 50

SECTION 15. REGULATORY INFORMATION

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

Regulation of the European Parliament and Council (EC) No. 1907/2006 on Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH), Establishing a European Chemicals Agency and on Amendment and Supplementation of Certain Regulations
Commission Regulation 2015/830 of amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Regulation of the European Parliament and Council (EC) No. 1272/2008 on Classification, Labelling, and Packaging of Substances and Mixtures
Commission Directive 2000/39/EC on occupational exposure limits (OEL).

Restrictions according to Commission Regulation No 552/2009 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards on Annex XVII: none
Candidate list substances (according to Annex XIV of EP and Council Regulation 1907/2006 REACH: none

15.2 Chemical safety assessment: performed within registration process (hydrogen peroxide)

SECTION 16. OTHER INFORMATION

Reason for revision: -

Wording of H-statements from section 3:

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful by inhalation.

Hazard classes:

Ox. Liq.: oxidising liquid

Acute Tox.: acute toxicity

Skin Corr: skin corrosion

Eye Dam.: serious eye damage STOT SE: specific target organ toxicity, single exposition

STOT RE: specific target organ toxicity, repeated exposition

Abbreviations:

OEL – Occupational exposure limit

DNEL – Derived no effect level

PNEC – Predicted no effect concentration

*) data according to ECHA

Requirements for packaging in case of selling to the general public: none