

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 1/18



Power Strip 500ml

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

1.1. Product identifier

Trade name/designation:

Power Strip 500ml

Article No.:

T495001

UFI:

AFC5-2RPP-6HJ5-4ET7

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

Use of the substance/mixture:

Surface cleaner

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2



Page 2/18

Power Strip 500ml

Signal word: Danger

Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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Additional information:

Formation of explosive mixtures possible without adequate ventilation.

2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Determination of endocrine disrupting properties:

Butanone (78-93-3)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Active ingredient mixture with propellant gas

Additional information:

Regulation (EC) No. 648/2004 [Detergents regulation]:

Aliphatic hydrocarbons: ≥ 15 - $< 30\%$

Nonionic surfactants: $< 5\%$

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2



Page 3/18

Power Strip 500ml

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 109-87-5 EC No.: 203-714-2 REACH No.: 01-2119664781-31	dimethoxymethane Flam. Liq. 2 (H225) ⚠ Danger	50 - < 75 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger	10 - < 25 Vol-%
CAS No.: 646-06-0 EC No.: 211-463-5 REACH No.: 01-2119490744-29-0004	1,3-dioxolane Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) ⚠⚠ Danger	2.5 - < 10 Vol-%
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	propan-2-ol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 - < 10 Vol-%
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119457610-43	ethanol Flam. Liq. 2 (H225) ⚠ Danger Specific concentration limit (SCL) Eye Irrit. 2; H319: C ≥ 50%	2.5 - < 10 Vol-%
CAS No.: 25322-68-3	PEG-8 The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 - < 10 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	Butane (with < 0,1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger	1 - < 2.5 Vol-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43	Butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) ⚠⚠ Danger EUH066	1 - < 2.5 Vol-%
CAS No.: 141-43-5 EC No.: 205-483-3 REACH No.: 01-2119486455-28	2-aminoethanol Acute Tox. 4 (H302, H312, H332), Aquatic Chronic 3 (H412), STOT SE 3 (H335), Skin Corr. 1B (H314) ⚠⚠ Danger Specific concentration limit (SCL) STOT SE 3; H335: C ≥ 5%	1 - < 2.5 Vol-%
EC No.: 918-481-9 REACH No.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromatics (benzene <0.1%) Asp. Tox. 1 (H304) ⚠ Danger	1 - < 2.5 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	Isobutane (with < 0.1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger	0.1 - < 1 Vol-%
CAS No.: 95-14-7 EC No.: 202-394-1 REACH No.: 01-2119979079-20	benzotriazole Acute Tox. 4 (H302, H332), Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319) ⚠⚠ Warning	≤ 0.1 Vol-%

Full text of H- and EUH-phrases: see section 16.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2



Page 4/18

Power Strip 500ml

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:

In general, the product is not irritating to skin.

After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:

Do not induce vomiting, seek medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, Extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam

Unsuitable extinguishing media:

Water in full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Do not wash away with water or aqueous detergents.

Other information:

Provide adequate ventilation.

6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 5/18



Power Strip 500ml

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

Fire prevent measures:

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:

The official regulations for the storage of pressurised gas packages must be observed.

Storage class (TRGS 510, Germany): 2B - Aerosol dispensers and lighters

Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	① 1,000 ppm (3,100 mg/m ³)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³)
MAK (AT)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m ³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 6/18



Power Strip 500ml

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	PEG-8 CAS No.: 25322-68-3	① 1,000 mg/m ³ ⑤ (eintatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600)
MAK (AT)	PEG-8 CAS No.: 25322-68-3	② 4,000 mg/m ³ ⑤ (eintatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600, max. 4x15 min./Schicht)
MAK (AT)	Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 100 ppm (295 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	② 200 ppm (590 mg/m ³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
MAK (AT) from 25 Sept 2018	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	② 3 ppm (7.6 mg/m ³) ⑤ (max. 4x15 min./Schicht) Sh
IOELV (EU)	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ② 3 ppm (7.6 mg/m ³) ⑤ (may be absorbed through the skin)
MAK (AT) from 11 Sept 2007	2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m ³) ⑤ Sh
MAK (AT)	Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht Momentanwert)
MAK (AT)	Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	132 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	39 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2



Page 7/18

Power Strip 500ml

Substance name	DNEL value	① DNEL type ② Exposure route
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	22 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	5.7 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	9.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	18.15 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	4.52 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	2.62 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	3.31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.18 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2



Page 8/18

Power Strip 500ml

Substance name	DNEL value	① DNEL type ② Exposure route
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.51 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.28 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	3 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1.5 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1.5 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	14.577 mg/L	① PNEC aquatic, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.4577 mg/L	① PNEC aquatic, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	10 mg/L	① PNEC sewage treatment plant
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	13.135 mg/kg	① PNEC sediment, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.313 mg/kg	① PNEC sediment, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	4.654 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 9/18



Power Strip 500ml

Substance name	PNEC Value	① PNEC type
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, freshwater
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/kg	① PNEC sediment, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles (EN-166)

Skin protection:

Hand protection:

Selection of glove material considering breakthrough times, permeation rates and degradation.

Wear gloves for protection against chemicals according to EN 374.

Gloves / solvent resistant

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness: $\geq 0,5$ mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter ABEK/P2

Other protection measures:

General protective and hygienic measures: Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feed. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. General ventilation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 10/18



Power Strip 500ml

8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: According to product designation

Odour: characteristic

Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		② Mixture is not polar/aprotic.
Initial boiling point and boiling range	-44.5 °C		
Flash point	-97 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	235 °C		
Upper/lower flammability or explosive limits	0.7 - 19.9 Vol-%		
Vapour pressure	<i>No data available</i>		
Density	0.79 g/cm ³	20 °C	
Bulk density	<i>not applicable</i>		
Water solubility	Immiscible		

9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

9.2.1. Information with regard to physical hazard classes

Explosives:

Not applicable

Flammable gases:

Not applicable

Aerosols:

Extremely flammable aerosol. Pressurized container: May burst if heated.

Oxidizing gases:

Not applicable

Gases under pressure:

Not applicable

Flammable liquids:

Not applicable

Flammable solids:

Not applicable

Self-reactive substances and mixtures:

Not applicable

Pyrophoric liquids:

Not applicable

Pyrophoric solids:

Not applicable

Self-heating substances and mixtures:

Not applicable

Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

Oxidizing liquids:

Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 11/18



Power Strip 500ml

Oxidizing solids:

Not applicable

Organic peroxides:

Not applicable

Corrosive to metals:

Not applicable

Desensitised explosives:

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

propane CAS No.: 74-98-6 EC No.: 200-827-9
LD₅₀ oral: 5,840 mg/kg (Rat)
LD₅₀ dermal: 13,900 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5
LD₅₀ oral: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): 68.4 mg/L 4 h (Rat)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD₅₀ oral: >2,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
ATE (oral): 10,470 mg/kg
LD₅₀ oral: >2,000 mg/kg (Rat) IUCLID
LD₅₀ dermal: >2,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
ATE (inhalation, dust/mist): 34 mg/L
LD₅₀ oral: >2,193 mg/kg (Rat) OECD 423
LD₅₀ dermal: >5,000 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (dust/mist): 34 mg/L 4 h (Rat)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 12/18



Power Strip 500ml

2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
LD₅₀ oral: 1,515 mg/kg (Rat)
LD₅₀ dermal: 2,881 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist): 1.3 mg/L 4 h (Rat)
Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromatics (benzene <0.1%) EC No.: 918-481-9
LD₅₀ oral: >5,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist): 4,951 mg/L 4 h (Rat)
Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2
LC₅₀ Acute inhalation toxicity (vapour): 52,000 mg/L 2 h (Rat)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties:

Butanone (78-93-3)

benzotriazole (95-14-7)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 13/18



Power Strip 500ml

SECTION 12: Ecological information

12.1. Toxicity

propane CAS No.: 74-98-6 EC No.: 200-827-9
LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC ₅₀ : 49.9 mg/L 4 d (fish)
EC ₅₀ : >100 mg/L (Algae/water plant, Bacteria)
EC ₅₀ : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia)
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ : >1,000 mg/L 4 d (fish)
EC ₅₀ : >100 mg/L (Algae/water plant)
EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : >1,000 mg/L 2 d (crustaceans)
ErC ₅₀ : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LC ₅₀ : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC ₅₀ : >1,000 mg/L 4 d (fish)
LC ₅₀ : =11,200 mg/L 1 d
EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : =275 mg/L 3 d
NOEC: =9.6 mg/L
ErC ₅₀ : >100 mg/L
LC ₅₀ : 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC ₅₀ : 6,500 mg/L (Algae/water plant, Pseudomonas putida)
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC ₅₀ : 2,993 mg/L 4 d (fish, Pimephales promelas) OECD 203
EC ₅₀ : 308 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
ErC ₅₀ : 1,972 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata) OECD 201
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
LC ₅₀ : 349 mg/L 4 d (fish, Cyprinus carpio)
EC ₅₀ : 2.8 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 0.85 mg/L 2 d (crustaceans, Daphnia magna)

Aquatic toxicity:

No further relevant information available.

Assessment/classification:

No further relevant information available.

12.2. Persistence and degradability

propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 14/18



Power Strip 500ml

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

Biodegradation:

Not readily biodegradable.

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}: 1.09
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{OW}: -0.31

Accumulation / Evaluation:

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2
Results of PBT and vPvB assessment: —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: —
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5
Results of PBT and vPvB assessment: —
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Results of PBT and vPvB assessment: —
Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment: —
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
Results of PBT and vPvB assessment: —
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
Results of PBT and vPvB assessment: —
Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromatics (benzene <0.1%) EC No.: 918-481-9
Results of PBT and vPvB assessment: —
Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment: —
benzotriazole CAS No.: 95-14-7 EC No.: 202-394-1
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 15/18



Power Strip 500ml

12.7. Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
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Waste code packaging





15 01 04	metallic packaging
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Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D) Remark: Attention: Gases	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Attention: Gases	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U Remark: Attention: Gases	Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: Attention: Gases

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 16/18



Power Strip 500ml

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: butanone; ethyl methyl ketone (78-93-3)

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: butanone; ethyl methyl ketone (78-93-3)

Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 739.8 g/L

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 17/18



Power Strip 500ml

MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
QSAR	Quantitative Structure-Activity Relationship
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 23 Mar 2023

Print date: 15 Feb 2024

Version: 2

Page 18/18



Power Strip 500ml

caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.