

Safety data sheet

PowerRemove

Version: 1.0

Effective date: 28-01-2015

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

1.1 Product Identifier

Product name: PowerRemove

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

Product Use: Cleaning agent

1.3 Details of the Supplier of the safety data sheet

Company: vikiallo ApS
Albuen 68
6000 Kolding
Tlf. +45 7734 5511
www.vikiallo.dk

Contact: mail@vikiallo.dk

1.4 Emergency Telephone Number:

Use your national or local emergency number.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification according to Directive 67/548/EEC or 1999/45/EC [DPD]

This product is not classified as dangerous.

Classification according to Regulation (EC) no. 1272/2008 [CLP/GHS]

2.2 Label Elements to Regulation (EC) no. 1272/2008 [CLP/GHS]:

Hazard pictograms:



Signal word:

Warning

Contains: 2-Butoxyethanol

H-phrases:

H315 Causes skin irritation.

H319 Causes serious eye irritation

P-Phrases:

P280 Wear protective gloves and eye protection.

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P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other Hazards

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1/2 Substance/Mixture

CAS/EC-no	Name	Content %	Classification
111-76-2 / 203-905-0	2-Butoxyethanol	10 - < 20	Xn; R20/21/22, Xi; R36/38 Acute Tox. 4; H332/312/302, Eye Irrit. 2; H319, Skin Irrit. 2, H315.
1336-21-6 / 215-647-6	Ammonia, aqueous solution	0,1 - < 1	C; R34, N; R50. Skin Corr. 1B; H314, Aquatic Acute 1, H400.

3.3 Additional Information:

See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

Inhalation:

Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact:

Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Eye contact:

Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion:

Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation : May cause headache, dizziness and a feeling of sickness.

Skin contact : Irritant. May cause dry skin and redness.

Eye contact : Irritant. May cause redness and pain.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor/physician: Treat symptomatically.

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SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: Carbondioxide (CO₂). Foam. Dry chemical. Water fog.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide may be evolved if incomplete combustion occurs.

5.3 Advice for firefighters:

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Ppecautions, protective equipment and emergency procedures

Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. See also section 8.

Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2 Environmental precautions:

Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with dike.

6.3 Methods and material for containment and cleaning up:

Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4 Reference to other sections:

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Do not breathe vapour. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities:

Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Keep only in the original container.

7.3 Specific end use(s):

Use only as directed. Do not mix with other products.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Name	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
2-Butoxyethanol	123 (GB) 100 (EC)	246 (GB) 246 (EC)	Skin; BMGV
Ammonia, aqueous solution	14 (EC)	-	

DNEL / PNEC

DNEL: 2-Butoxyethanol

Workers	Short-term:	Long-term:
Dermal:	-	89 mg/kg – systemic effect 75 mg/kg - systemic
Inhalation:	246 mg/m ³ - Local	663 mg/m ³ - systemic effect 98 mg/m ³ - systemic

Consumers	Short-term:	Long-term:
Dermal:	-	44,5 mg/kg - systemic 38 mg/kg - systemic
Inhalation:	-	426 mg/m ³ - systemic 49 mg/m ³ - systemic
Oral:	-	123 mg/kg - systemic 3,2 mg/kg - systemic

PNEC: 2-Butoxyethanol

	Fresh water	Marine water	
Water	8,8 mg/l	0,88 mg/l	
Sediment	34,6 mg/kg	3,46 mg/l	
Intermittent water			9,1 mg/l
STP			463 mg/l
Soil			3,13 mg/kg
Oral			0,02 mg/kg food

8.2 Exposure controls

Appropriate technical measures:

Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

General information:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. When using do not eat, drink or smoke.

Personal protective equipment:

Only CE-marked personal protection equipment should be used. The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

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- Respiratory protection:** Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type AK (brown/green), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection:** Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. \pm 0,5 mm indication of permeation breakthrough time: not known.
- Eye protection:** Wear appropriate safety glasses when there is danger of possible eye contact.
- Body protection:** Use of specific protective industrial clothing is not required under normal conditions of use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid	Odour: Characteristic	Color: Pink	PH: 11,4	Viscosity:
Flash point: 72°C	Boiling point: 100°C	Vapour pressure:	Density g/ml: 0,99	Pour point: < 0°C
Ignition temperature:	Auto-ignition temperature: > 230°C	Explosive limits vol %: 1,3 – 10,6 (2-Butoxyethanol)	Solubility in water: Soluble	

9.2 Other Information:

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SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** No other hazardous reactions known.
- 10.2 Chemical stability:** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** None known.
- 10.4 Conditions to avoid:** See section 7.
- 10.5 Incompatible materials:** Keep away from oxidizing agents.
- 10.6 Hazardous decomposition Products:** Not known.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No toxicological research has been carried out on this product.

Acute toxicity:

2-Butoxyethanol:

NOAEL (oral) < 69 OECD 408 Rat

NOAEL (inhalation) 152 mg/m³ OECD 413 Rat

LD50 (oral) 1746 mg/kg OECD 401 Rat

LD50 (dermal) 435 mg/kg OECD 402 Rabbit

LC50 (inhalation) 2200 mg/m³ OECD 403 Rat

Acute toxicity – Inhalation:

Calculated LC50: 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.

Acute toxicity – Skin contact:

Calculated LD50: > 3632 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Skin corrosion/irritation:

May cause irritation to respiratory airways and coughing.

Serious eye damage/irritation:

Irritant.

Aspiration hazard:

Not considered an aspiration hazard.

Carcinogenicity:

Not expected to be carcinogenic.

Germ cell mutagenicity:

Not considered a mutagenic hazard.

Reproductive toxicity:

Not expected to be a hazard.

Respiratory or skin sensitisation:

Does not contain respiratory sensitisers. Not classified - based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure:

Not expected to be a hazard.

Specific target organ toxicity – repeated exposure:

Not expected to be a hazard.

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

12.1 Toxicity:

Calculated LC50 (fish): 2800 mg/l. Calculated EC50 (waterflea): 9817 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

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12.2 Persistence and degradability:

No specific information known.

12.3 Bioaccumulative potential:

No specific information known.

12.4 Mobility:

If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5 Result of PBT and vPvB assesment:

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects:

Not applicable.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Contaminated packing:

No specific requirements.

SECTION 14. TRANSPORT INFORMATION

This product is not classified as dangerous of transport.

	ADR/RID	IMDG/IMO
14.1 UN Number	-	-
14.2 UN Proper Shipping name	-	-
14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-
14.5 Environmental hazards - MP	-	-
Other informations	-	-

14.6 Special precautions for user:

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

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SECTION 15. REGULATORY INFORMATION

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

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC EC Regulation 1272/2008 (CLP)

Other regulatory information authorisations and/or restrictions on use

No known.

Additional information:

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15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Full text of H/R-phrases as mentioned in section 3:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R50 Very toxic to aquatic organisms.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

Additional information:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Validated by:

SRS

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