

PowerVate PV33 OXI DESTAINER

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

1.1 - Product identifier

Trade name/designation PowerVate PV33 OXI DESTAINER

Chemical name

Product-type Mixture

Product code JMS0016EO PVH

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

Relevant identified uses - PC35: Washing and cleaning products
(including solvent based products).

1.3 - Details of the supplier of the safety data sheet

Biovate Hygienics Ltd
Grafton House
Pury Hill Business Park
NN12 7LS Towcester United Kingdom
Telephone: 01328 851407
Website: www.biovatehygienics.com
Email: info@biovatehygienics.com

1.4 - Emergency telephone number

United Kingdom: NHS Direct:111

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Skin Irrit. 2	Irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)

2.2 - Label elements

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

Contains: hydrogen peroxide solution ... % (CAS No.: 7722-84-1)

Signal word : Danger

Hazard pictograms



Hazard statements

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage

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H332	Harmful if inhaled
H335	May cause respiratory irritation
Precautionary statements	

P261	Avoid breathing fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/a doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate recycling or disposal facility in accordance with local/regional/national regulation.

EUH-phrases : None

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
hydrogen peroxide solution ... %	CAS No. : 7722-84-1 Index No. : 008-003-00-9 EC No. : 231-765-0	0 - 50	Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Ox. Liq. 1 - H271 Skin Corr. 1A - H314	Ox. Liq. 1 - H271 : 70>=%<=100 Ox. Liq. 2 - H272 : 50>=%<70 Skin Corr. 1A - H314 : 70>=%<=100 Skin Corr. 1B - H314 : 50>=%<70 Skin Irrit. 2 - H315 : 35>=%<50 Eye Dam. 1 - H318 : 8>=%<50 Eye Irrit. 2 - H319 : 5>=%<8 STOT SE 3 (H335) - H335 : 35>=%<=100

SECTION 4: First aid measures

4.1 - Description of first aid measures

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<u>Following inhalation</u>	<ul style="list-style-type: none">- Provide fresh air.- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.- When in doubt or if symptoms are observed, get medical advice.- Medical examination necessary even merely on suspicion of intoxication.- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
<u>Following skin contact</u>	<ul style="list-style-type: none">- After contact with skin, wash immediately with plenty of water and soap.- In case of skin irritation, consult a physician.
<u>After eye contact</u>	<ul style="list-style-type: none">- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
<u>After ingestion</u>	<ul style="list-style-type: none">- Seek medical advice immediately.- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.- Rinse mouth thoroughly with water.- Medical treatment necessary.- When in doubt or if symptoms are observed, get medical advice.

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

<u>Symptoms and effects - Following inhalation</u>	<ul style="list-style-type: none">- There may be irritation of the throat with a feeling of tightness in the chest.- Vapours may cause drowsiness and dizziness.
<u>Symptoms and effects - Following skin contact</u>	<ul style="list-style-type: none">- Causes skin irritation.
<u>Symptoms and effects - After eye contact</u>	<ul style="list-style-type: none">- Serious eye damage/eye irritation
<u>Symptoms and effects - After ingestion</u>	<ul style="list-style-type: none">- There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

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

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none">- ABC-powder- Carbon dioxide (CO₂)- Foam- Extinguishing powder
<u>Unsuitable extinguishing media</u>	<ul style="list-style-type: none">- Full water jet

5.2 - Special hazards arising from the substance or mixture

<u>Special hazards arising from the substance or mixture</u>	<ul style="list-style-type: none">- Hazardous combustion products
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5.3 - Advice for firefighters

- Remove product from area of fire.
- Wear a self-contained breathing apparatus and chemical protective clothing.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

<u>For non-emergency personnel</u>	<ul style="list-style-type: none">- Use personal protection equipment.- Remove persons to safety.- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
<u>For emergency responders</u>	<ul style="list-style-type: none">- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

6.3 - Methods and material for containment and cleaning up

<u>Methods and material for containment</u>	<ul style="list-style-type: none">- Soak up inert absorbent and dispose as waste requiring special attention.
<u>Methods and material for cleaning up</u>	<ul style="list-style-type: none">- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).- Take up mechanically, placing in appropriate containers for disposal.- Clear contaminated areas thoroughly.- Ventilate affected area.- Take up carefully when dry.- Clean contaminated articles and floor according to the environmental legislation.
<u>Inappropriate techniques</u>	<ul style="list-style-type: none">- No information available.

6.4 - Reference to other sections

- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

<u>Recommendation</u>	<ul style="list-style-type: none">- Avoid: Eye contact- It is recommended to design all work processes always so that the following is excluded: Eye contact- Avoid: Skin contact- It is recommended to design all work processes always so that the following is excluded: Skin contact- After use replace the closing cap immediately.
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- Vapours/aerosols must be exhausted directly at the point of origin.
- All work processes must always be designed so that the following is excluded: generation/formation of aerosols
- All work processes must always be designed so that the following is excluded: Inhalation
- See section 8.
- Avoid exposure - obtain special instructions before use.

Advices on general occupational hygiene

- When using do not eat, drink, smoke, sniff.
- Wash hands before breaks and after work.
- Work in well-ventilated zones or use proper respiratory protection.
- Wash contaminated clothing prior to re-use.
- Thorough skin-cleansing after handling the product.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
- Storage class Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances (liquid)
- Do not store together with: Food and feedingstuffs

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- Ensure there is sufficient ventilation
- Floors should be impervious, resistant to liquids and easy to clean.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection
- Tested protective gloves must be worn
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Barrier creams are not substitutes for body protection.



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- Suitable respiratory protection apparatus: Self-contained respirator (breathing apparatus)



- Protective gloves



- Protective Clothing

Environmental exposure controls

- Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	colourless	<u>Odour</u>	odourless
Odour threshold		No data available	
pH		5 < V < 6	
Melting point		No data available	
Freezing point		No data available	
Boiling point		100 °C	
Flash point		> 93 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		Soluble in water.	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		Non-viscous	
<u>Particle characteristics</u>			
Particle size		No data available	

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available

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Conductivity	No data available
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SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

- Oxidiser: will readily oxidise other materials that come into contact with it.

10.4 - Conditions to avoid

- Avoid direct sunlight.

- Avoid excessive heat for prolonged periods of time.

10.5 - Incompatible materials

- Strong Acids and Oxidising Agents

10.6 - Hazardous decomposition products

- Decomposition may occur on exposure to conditions or materials listed: metals, acids, bases, heat.

SECTION 11: Toxicological information

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

Acute toxicity - Acute toxicity (inhalative) - Category 4 - Harmful if inhaled

- Acute toxicity (oral) - Category 4 - Harmful if swallowed

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Harmful by inhalation.
- Toxic by inhalation.
- No information available.

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation

- Irritating to skin.

Serious eye damage/eye irritation - Serious eye damage, Category 1 - Causes serious eye damage

- Risk of serious damage to eyes.
- Causes serious eye irritation.

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<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- STOT-single exposure - Category 3 (H335) - May cause respiratory irritation - data lacking
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

11.2 - Information on other hazards

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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12.6 - Endocrine disrupting properties

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	<ul style="list-style-type: none">- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.- Handle contaminated packages in the same way as the substance itself.
<u>Sewage disposal</u>	<ul style="list-style-type: none">- No information available.
<u>Special precautions for waste treatment</u>	<ul style="list-style-type: none">- Waste requires special monitoring.- Collect the waste separately.- Send to a hazardous waste incinerator facility under observation of official regulations.- Waste requires monitoring.- The waste is to be kept separate from other types of waste until its disposal.
<u>Community or national or regional provisions</u>	<ul style="list-style-type: none">- No information available.

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN2984
<u>UN number (RID)</u>	:	Not applicable
<u>UN number (ADN)</u>	:	Not applicable
<u>UN number (IMDG)</u>	:	Not applicable
<u>UN number (IATA)</u>	:	Not applicable

14.2 - UN proper shipping name

UN proper shipping name (ADR) : HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 5.1
ADR Classification code: : O1
Pictograms



Pictograms

14.4 - Packing group

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Packing group : III

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

ADR

ADR Classification code : O1
ADR Special provisions : 65
ADR Limited quantity (LQ) : 5L
ADR Excepted quantities : E1
ADR Packing instructions : P504 IBC02 R001
ADR Special packing provisions : PP10 B5
ADR Mixed packing provisions : MP15
Instructions for portable tanks and bulk containers : T4
Special provisions for portable tanks and bulk containers : TP1 TP6 TP24
ADR tank code : LGBV
ADR tanks special provisions : TU3 TC2 TE8 TE11 TT1
Vehicle for tank carriage : AT
ADR Transport category : 3
ADR Tunnel restriction code : E
ADR Special provisions loading, unloading and handling : CV24
Special provisions - Packages :
Special provisions - Bulk :
Special provisions - Operation :
ADR Hazard identification number (Kemler No.) : 50

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH candidates : None

Substances Annex XIV : None

Substances Annex XVII : None

VOC content : No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

PowerVate PV33 OXI DESTAINER

Version	Issue date	Author	Description of the amendments
1	16/03/2022		

Texts of the regulatory sentences

Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Dam. 1	Serious eye damage, Category 1
H271	May cause fire or explosion; strong oxidiser
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
Ox. Liq. 1	Oxidising liquids - Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Irritation, Category 2
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)

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