

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Trade name : DS 108 - Bullfrog Peroxifect
 Product group : Trade product

1.2. Recommended use and restrictions on use

Recommended use : Biocidal products (e.g. Disinfectants, pest control)

1.3. Supplier

Manufacturer

AxSys Direct Manufacturing
 4523 97 Street
 T6E 5Y8 Edmonton, AB - Canada
 T 780-436-2606 - F 780-434-5904

1.4. Emergency telephone number

Emergency number : FOR EMERGENCIES INVOLVING DANGEROUS GOODS CALL CANUTEC'S 24HR NUMBER
 613-996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401	Toxic to aquatic life
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) : 

Signal word (GHS-CA) : Warning

Hazard statements (GHS-CA) : H302 - Harmful if swallowed.
 H401 - Toxic to aquatic life

Precautionary statements (GHS-CA) : P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P273 - Avoid release to the environment.
 P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 P330 - Rinse mouth.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
hydrogen peroxide, conc=35%, aqueous solution	albone 35 / albone 35CG / albone 35M / dihydrogen dioxide, conc=35%, aqueous solution / hydrogen dioxide, conc=35%, aqueous solution / hydrogen peroxide (H ₂ -O ₂) / hydroperoxide, conc=35%, aqueous solution / interox, conc=35%, aqueous solution / kastone B, conc=35%, aqueous solution / kastone, conc=35%, aqueous solution / oxygenised water, conc=35%, aqueous solution / perdrogen, conc=35%, aqueous solution / peroxal, conc=35%, aqueous solution / peroxide of hydrogen, conc=35%, aqueous solution / peroxide, conc=35%, aqueous solution / superol, conc=35%, aqueous solution / superoxol, conc=35%, aqueous solution / tysul 35S / tysul WW35	CAS-No.: 7722-84-1	18 – 23	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

alkyldimethylbenzylammoniumchloride	alkylbenzyl dimethylammoniumchloride / alkyldimethyl(phenylmethyl)quaternaryammoniumchlorides / ammonyx / barquat mb80 / bayclean / benirol / benzalkoniumchloride / benzyl dimethylalkylammoniumchloride / bionol / bionoloro50 / BTC / BTC50 / BTC 824 / catamin ab / catamine ab / cequaryl / Corrosive solid, n.o.s. / culversan 50-LC / dibactol / dimanin a / drapolene / drapolex / enuclen / germicin / germitol / germitol / hyamine 3500 / intexan LB50 / katamin AB / marinol / marquat mb50 / neo germitol / neogermitol / onyx btc / osvan / paralkan / phemerol / pheneene germicidal, solution and tincture / quaternary ammonium compounds, alkylbenzyl dimethyl / quaternaryammonium compounds, alkylbenzyl dimethylchlorides / quaternium-1 / quaternium-34 / retzaquat 47 / roccal / roccal 90% / rodalon / triton k-60 /	CAS-No.: 8001-54-5	9 – 12	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400
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DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
	variquat 415 / zephiral / zephiran / zephiranchloride / zephirol			
phosphoric acid, conc=75%, aqueous solution	orthophosphoric acid, conc=75%, aqueous solution / phosphoric-acid-	CAS-No.: 7664-38-2	0.1 – 2	Skin Corr. 1, H314 Eye Dam. 1, H318

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
N,N-dimethyldodecylamine-N-oxide	1-dodecanamine, N,N-dimethyl-, N-oxide / ammonyx AO / ammonyx LO / amonyx AO / AROMOX DMCD / AROMOX DMMC-W / CONCO XAL / DDAO (=dimethyldodecyl amine oxide) / DDNO (=dimethyldodecyl amine N-oxide) / dimethylaurylamine oxide / dimethyldodecylamine N-oxide / dimethyldodecylamine oxide / dimethylaurylamine oxide / dodecylamine, N,N-dimethyl- / dodecyldimethylamine oxide / EMPIGEN OB / laruyldimethylamine oxide / lauramine oxide / lauryldimethylamine N-oxide / LDAO (=lauryldimethylamine oxide) / N,N-dimethyl-1-dodecanamine oxide / N,N-dimethyldodecylamine oxide / N,N-dimethyl-N-dodecylamine oxide / n-dodecyldimethylamine oxide / N-lauryldimethylamine N-oxide / N-lauryl-N,N-dimethylamine oxide	CAS-No.: 1643-20-5	1	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
First-aid measures general	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : No data available
Colour : Mixture contains one or more component(s) which have the following colour(s):
Light green White to yellow-white Colourless
Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour:
Odourless Aromatic odour Almost odourless Characteristic odour
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE CA (oral)	2000 mg/kg bodyweight
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hydrogen peroxide, conc=35%, aqueous solution (7722-84-1)

ATE CA (oral)	500 mg/kg bodyweight
ATE CA (gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

N,N-dimethyldodecylamine-N-oxide (1643-20-5)

LD50 oral rat	1064 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
ATE CA (oral)	1064 mg/kg bodyweight

alkyldimethylbenzylammoniumchloride (8001-54-5)

LD50 oral rat	240 mg/kg (Rat)
ATE CA (oral)	240 mg/kg bodyweight

Skin corrosion/irritation	: Not classified
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DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life.
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Not classified

N,N-dimethyldodecylamine-N-oxide (1643-20-5)	
LC50 - Fish [1]	134 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value)
EC50 - Daphnia [1]	3.9 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
Partition coefficient n-octanol/water (Log Pow)	< 2.7 (Calculated)

alkyldimethylbenzylammoniumchloride (8001-54-5)	
LC50 - Fish [1]	0.62 mg/l (LC50; 96 h)

12.2. Persistence and degradability

phosphoric acid, conc=75%, aqueous solution (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.

hydrogen peroxide, conc=35%, aqueous solution (7722-84-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

N,N-dimethyldodecylamine-N-oxide (1643-20-5)	
Persistence and degradability	Readily biodegradable in water.

alkyldimethylbenzylammoniumchloride (8001-54-5)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

phosphoric acid, conc=75%, aqueous solution (7664-38-2)	
Bioaccumulative potential	No test data of component(s) available.

hydrogen peroxide, conc=35%, aqueous solution (7722-84-1)	
Bioaccumulative potential	Not bioaccumulative.

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

N,N-dimethyldodecylamine-N-oxide (1643-20-5)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	< 2.7 (Calculated)

alkyldimethylbenzylammoniumchloride (8001-54-5)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

phosphoric acid, conc=75%, aqueous solution (7664-38-2)	
Ecology - soil	Highly mobile in soil.

hydrogen peroxide, conc=35%, aqueous solution (7722-84-1)	
Ecology - soil	No (test)data on mobility of the component(s) available.

N,N-dimethyldodecylamine-N-oxide (1643-20-5)	
Ecology - soil	Low potential for adsorption in soil.
Partition coefficient n-octanol/water (Log Pow)	< 2.7 (Calculated)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : Not applicable

DOT
Transport hazard class(es) (DOT) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

14.4. Packing group

Packing group (TDG) : Not applicable
Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

No data available

DOT

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

No additional information available

15.2. International regulations

No additional information available

SECTION 16: Other information

Full text of H-statements:

H271	May cause fire or explosion; strong oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life

Safety Data Sheet (SDS), Canada

DS 108 - Bullfrog Peroxifect

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

While the descriptions, data and information contained herein are presented in good faith and believed to be current, it is provided for guidance only. Because there are so many factors that may affect processing, application or other use, we recommended that you perform an assessment to determine the suitability of the product for your particular purpose prior to use. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding the product described. We assume NO responsibility for any injuries sustained from misuse or misapplication of this product or that might be experienced due to inhalation, ingestion, absorption or other contact with this product. In no case shall the descriptions, information or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such, it has been given and accepted at your risk.