

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
 Issue date: 07/04/2022 Revision date: 07/04/2022 Supersedes version of: 07/23/2018 Version: 8.00

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

1.1. Product identifier

Trade name : lotus® PRO & iClean® mini & iClean® PRO
 Model # LQFC225K, LQFC275, LQFC200, LQFC300
 Type of product : Biocidal products
 Other means of identification : Stabilized aqueous ozone

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning agent
 Disinfectant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Tersano Inc.
 3440 North Talbot Rd
 Oldcastle Ontario, N0R 1L0
 Canada
 T +1 800-808-1723
www.tersano.com

Importer

Ecofy
 213/16 Wurrook Circuit
 Caringbah NSW 2229
 T: 02 9531 8550

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	National Poison Information Centre	Hawkesbury Road, Westmead New South Wales 2145	+13 11 26	
New Zealand	National Poisons Centre, Dunedin School of Medicine University of Otago	PO Box 56 Dunedin 9054 New Zealand	+0800 764 766	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

This product is not hazardous in the form in which it is shipped by the manufacturer.

2.2. Label elements

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

Extra phrases : The additional label requirements of directive EU 528/2012 about the available on the market and use of biocidal products have to be observed.

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
water (7732-18-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Ozone generated from oxygen (10028-15-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	≥ 99,999	Not classified
Ozone generated from oxygen (Active substance (Biocide))	CAS-No.: 10028-15-6 EC-No.: 233-069-2	< 0,001	Ox. Gas 1, H270 Acute Tox. 1 (Inhalation:gas), H330 (ATE=0.7 ppmv/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: No specific measures are necessary.
First-aid measures after skin contact	: No specific measures are necessary.
First-aid measures after eye contact	: No specific measures are necessary.
First-aid measures after ingestion	: No specific measures are necessary.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not applicable. The product is not flammable. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.

Explosion hazard : Product is not explosive.

Reactivity in case of fire : The product is not flammable.

Hazardous decomposition products in case of fire : The product is not flammable.

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Not expected to present a significant hazard under anticipated conditions of normal use.

6.1.1. For non-emergency personnel

Protective equipment : No specific measures are necessary.

6.1.2. For emergency responders

Protective equipment : No specific measures are necessary.

6.2. Environmental precautions

No specific measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment : For a large spillage, contain the spillage by bunding.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Avoid breathing mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Containment as appropriate. Glass. Plastic materials. Keep container tightly closed.

7.3. Specific end use(s)

Follow the directions!. Germicide. PT2 - Biocidal products used for the disinfection of surfaces, materials, equipment and furniture which are not used for direct contact with food or feeding stuffs. Usage areas include, inter alia, swimming pools, aquariums, bathing and other waters; air conditioning systems; and walls and floors in private, public and industrial areas and in other areas for professional activities. PT4 - Biocidal products used for the disinfection of equipment, containers, consumption utensils, surfaces or pipework associated with the production, transport, storage or consumption of food or feed (including drinking water) for humans and animals. Cleaner. Deodorizer.

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Ozone generated from oxygen (10028-15-6)	
Australia - Occupational Exposure Limits	
Local name	Ozone
NES Peak limitation:	0.2 mg/m ³ , 0.1 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Ozone generated from oxygen (10028-15-6)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	0.024 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.008 µg/L
PNEC aqua (marine water)	0.0008 µg/L
PNEC aqua (intermittent, freshwater)	0.08 µg/L
PNEC aqua (intermittent, marine water)	0.008 µg/L

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Keep good industrial hygiene.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Does not require any particular or specific measures. Respect the general rules for occupational hygiene

8.2.2.2. Skin protection

Skin and body protection:

Does not require any particular or specific measures. Respect the general rules for occupational hygiene

Hand protection:

Does not require any particular or specific measures. Respect the general rules for occupational hygiene

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Type NO P3 (blue). EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

The above mentioned instructions regarding the protective equipment refer to the industrial use of larger quantities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless.
Appearance	: clear.
Odour	: slight. Sweet. not perfumed.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: 0 °C
Boiling point	: 100 °C
Flammability (solid, gas)	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not available
pH	: SAO-24: 3.0 - 6.0; SAO-4: 5.0 – 6.0; iClean mini/PRO: 4.0 – 6.0; No cartridge: 7.0
Viscosity, kinematic	: Not relevant (Water)
Viscosity, dynamic	: Not relevant (Water)
Solubility	: Water: Soluble/Miscible
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: Not applicable
Vapour pressure	: 2.3 kPa (20 °C)
Vapour pressure at 50 °C	: Not available
Density	: 1 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not relevant (Water)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Tersano SAO systems include SAO cartridge. Without SAO cartridge device produces only an Aqueous Ozone solution which may form bromates in the presence of bromides in the water above pH 6.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

Low carbon steels and other materials incompatible with water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: SAO-24: 3.0 - 6.0; SAO-4: 5.0 – 6.0; iClean mini/PRO: 4.0 – 6.0; No cartridge: 7.0
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: SAO-24: 3.0 - 6.0; SAO-4: 5.0 – 6.0; iClean mini/PRO: 4.0 – 6.0; No cartridge: 7.0
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: IARC: International Agency for Research on Cancer
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	Not relevant (Water)
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11.2. Information on other hazards

LD₅₀/LC₅₀ Values Relevant for Classification:

CAS:	10028-15-6 Ozone
Inhalation LC50	12.6 ppm / 3 hours (mice)

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Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Not toxic to aquatic environments when containing <25 ppm ozone, based on M-factor calculation.

12.2. Persistence and degradability

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Persistence and degradability	Decomposes: water, oxygen.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

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Mobility in soil	Not applicable

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
water (7732-18-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Ozone generated from oxygen (10028-15-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. European waste catalogue.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
European List of Waste (LoW) code	: 06 13 99 - wastes not otherwise specified

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

Other information, restriction and prohibition regulations : A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Labelling of contents (648/2004/EC). Not applicable. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products. The additional label requirements of directive EU 528/2012 about the available on the market and use of biocidal products have to be observed. Every advertisement for biocides has to be accompanied by following sentence: Use biocides safely. Always read the label and product information before use.

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

This product contains biocidal products

Type of product (Biocide) : 2 - Disinfectants and algacides not intended for direct application to humans or animals,
4 - Food and feed area

15.1.2. National regulations

Australian Inventory of Chemical Substances:

CAS: 7732-18-5 Water

CAS: 10028-15-6 Ozone

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	General revision		SDS EU format according to COMMISSION REGULATION (EU) 2020/878
1.1	Trade name	Modified	
1.3	Manufacturer/Supplier	Modified	address
3.2	Components	Added	
3.2	Active substance (Biocide)	Added	
15.1	Type of product (Biocide)	Added	

Abbreviations and acronyms:	
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
EC50	Median effective concentration
DNEL	Derived-No Effect Level
DMEL	Derived Minimal Effect level
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose

lotus® PRO & iClean® mini & iClean® PRO

Model # LQFC225K, LQFC275, LQFC200, LQFC300

Safety Data Sheet

Abbreviations and acronyms:	
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NES:	National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Information provided by the manufacturer. European Chemicals Agency, <http://echa.europa.eu/>.

Department issuing data specification sheet: : Tersano Inc.
3440 North Talbot Rd,
Oldcastle Ontario, N0R 1L0
Phone : 1-800-808-1723 x519

Contact person : Robert Petro

Other information :

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation: gas)	Acute toxicity (inhalation: gas) Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H270	May cause or intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Ox. Gas 1	Oxidising Gases, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1

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.