

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 : Cleaner
Disinfectant (LQFC225K + LCA 118K)

Other means of identification : Stabilized Aqueous Ozone (SAO®)

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 (lotus PRO + SAO 24 Cartridge)

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

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
International	Tersano	3440 North Talbot Rd Oldcastle Ontario, N0R 1L0 Canada	1-800-808-1723 (Toll-Free)	
Canada - Ontario	Ontario Poison Control Center / Centre Antipoison de l'Ontario The Hospital for Sick Children (SickKids)	555 University Avenue Toronto, Ontario, M5G 1X8 Canada	1-800-268-9017 (Toll-free)	
United States	American Association of Poison Control Centers (AAPCC)	https://www.poisonhelp.org/	1-800-222-1222	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Physical Hazards : Not Classified

Health Hazards : Not Classified

Environmental Hazards : Not Classified

WHMIS 2015 defined hazards : 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

Hazard Symbol : None

Signal Word : None

Hazard/Precautionary Statement : Mixture does not meet the criteria for classification

Prevention : Observe good hygiene practices

Response : Not applicable

Storage : Not applicable

Disposal : No special precaution required

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) : None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) : None known

Hazard(s) not otherwise classified (HNOC) : None known

Supplemental information : Not Applicable

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 This substance/mixture does not meet the vPvB criteria
Ozone generated from oxygen (10028-15-6)	This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteria

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
water	CAS-No.: 7732-18-5	≥ 99,999
Ozone generated from oxygen (Active substance (Biocide))	CAS-No.: 10028-15-6	< 0,001

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.

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

Treat symptomatically.

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 : Nonflammable.
- 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, shoveling) 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 supplier/manufacturer's directions. Germicide. Cleaner. Deodorizer. Disinfectant.

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)	
Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)	
Type	Value
STEL	0.6 mg/m ³ , 0.3 ppm
TWA	0.2 mg/m ³ , 0.1 ppm
Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)	
TWA	0.05 ppm
Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)	
TWA	0.05 ppm
Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)	
STEL	0.6 mg/m ³ , 0.3 ppm
TWA	0.2 mg/m ³ , 0.1 ppm
Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)	
Ceiling	0.2 mg/m ³ , 0.1 ppm
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	
PEL	0.2 mg/m ³ , 0.1 ppm
US. ACGIH Threshold Limit Values	
TWA	0.05 ppm
US. NIOSH: Pocket Guide to Chemical Hazards	
Ceiling	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 workstation. 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

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
Vapour density	: 0.62 (Air = 1)
Density	: 1.00 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

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 cartridges devices produce 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 sensitization	: Not classified (Based on available data, the classification criteria are not met)
Skin sensitization	: Not a skin sensitizer
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: Not Listed
Reproductive toxicity	: This product is not expected to cause reproductive or developmental effects
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)

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)

CAS:	10028-15-6 Ozone
LC50	0.008 - 0.011 mg/L, 96 hours (Rainbow trout, Donaldson trout, <i>Oncorhynchus mykiss</i>)

CAS:	7732-18-5 Water
Oral LD50	14500 mg/kg (Rat)

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.

Ecotoxicological data:

Component: Ozone (CAS 10028-15-6)	Species	Test Results
Aquatic, Fish	LC50	Rainbow trout, Donaldson trout, (<i>Oncorhynchus mykiss</i>)
		0.008 - 0.011 mg/L, 96 hours

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

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12.5. Results of PBT and vPvB assessment

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

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 : Same as water. Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.
Hazardous waste code : Not Regulated
Contaminated packaging : Cleaned containers may be recycled.

SECTION 14: Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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				

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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. Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Ozone (CAS 10028-15-6)

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions: Not applicable

15.1.2. US Federal & State regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Ozone (CAS 10028-15-6) 100 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting): Not regulated.

US - California Hazardous Substances (Director's): Listed substance

Ozone (CAS 10028-15-6)

US - Illinois Chemical Safety Act: Listed substance

Ozone (CAS 10028-15-6)

US - Minnesota Haz Subs: Listed substance

Ozone (CAS 10028-15-6)

US - New Jersey RTK - Substances: Listed substance

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Ozone (CAS 10028-15-6)

US - New York Release Reporting: Acutely Hazardous Substances: Listed substance

Ozone (CAS 10028-15-6)

US. Massachusetts RTK - Substance List

Ozone (CAS 10028-15-6)

US. New Jersey Worker and Community Right-to-Know Act

Ozone (CAS 10028-15-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Ozone (CAS 10028-15-6)

US. Rhode Island RTK

Ozone (CAS 10028-15-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

15.1.3. Other Federal Regulations & Inventory Status

Other federal regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Inventory status: Ozone

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

15.1.4. 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.

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 algaecides not intended for direct application to humans or animals,
4 - Food and feed area

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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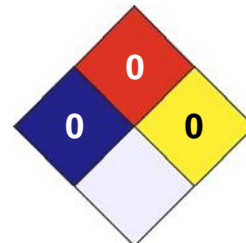
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SECTION 16: Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Indication of changes					
Version	Date	Section	Changed item	Change	Comments
8.0	07/12/2022	ALL	General revision	Modified	SDS EU format according to COMMISSION REGULATION (EU) 2020/878
8.1	02/23/2023	2, 3, 12.5	Updated to remove European Classifications which are non-applicable	Removed EU Classifications	Revisions to better align with GHS standard for North America
8.2	04/20/2023	1	Split Canadian & US SDS	Application of SDS	Canadian Applications differ from United States, SDS updated to match approvals

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

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

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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/>.
Dell Tech Laboratories Ltd.

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

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.