

1. IDENTIFICATION

Product name: LOONA XTREME CLEANER

Other means of identification (Article number):

Recommended use: Spraying, Detergent, Cleaning agent

Restrictions on use

Uses advised against:

Manufacturer: LOONA Products

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Saint-Jean-sur-Richelieu, QC,

Canada J2X 2R3

Telephone: 579-488-4960

www.loona.ca

Emergency telephone number: CANUTEC (24/7): +1 (613) 996-6666
ou *666 (cellulaire - emergence)

2. HAZARD IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Eye irritation: Category 2A

GHS label elements

Hazard pictograms:



Signal Word: Warning

Hazard Statements: H319 Causes serious eye irritation.

Precautionary Statements

Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.

Other hazards: None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w / w)
Alcohols, C7-C21, ethoxylated	68991-48-0	> = 5 - <10
Hydrogen peroxide	7722-84-1	> = 3 - <5

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Protection of first-aiders: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Not applicable, Will not burn.

Unsuitable extinguishing media: Not applicable, Will not burn.

Specific hazards during fire fighting: Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides.

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for Methods and materials for: Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Technical measures: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation: Use only with adequate ventilation.

Advice on safe handling: Avoid inhalation of vapor or mist. Do not swallow do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage: Keep in properly labeled containers. Store in accordance with the particular national regulations.

Materials to avoid: Do not store with the following product types: Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingrédients	CAS-No.	Value Type (Form of exposure)	Paramètres de contrôle admissible /concentration	Base
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m ³	CA AB OEL
		TWA	1 ppm	CA BC OEL
		TWAEV	1 ppm 1.4 mg / m ³	CA QC OEL
		TWA	1 ppm	ACGIH

Engineering measures: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type: Inorganic gas/vapor type.

Hand protection Material: Rubber gloves, Material: Latex gloves.

Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often

Eye protection: Wear the following personal protective equipment: Safety goggles.

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Color: clear

Odor: odorless

Odor Threshold: No data available

pH: 4.5 - 5.5

Melting point/freezing point: No data available

Initial boiling point and boiling range: 100 °C

Flash point: boils before flash

Evaporation rate: No data available

Flammability (solid, gas): Not applicable

Flammability (liquids): Will not burn

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: 1.05 g/cm³

Solubility(ies)

Water solubility: completely soluble

Partition coefficient: n- octanol/water: Not applicable

Autoignition temperature: No data available

Decomposition temperature: No data available

Viscosity

Viscosity, kinematic: No data available

Explosive properties: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

Particle size: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Can react with strong oxidizing agents.

Conditions to avoid: None known.

Incompatible materials: Oxidizing agents.

Hazardous decomposition: No hazardous decomposition products are known products.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation, Skin contact, Ingestion, Eye contact.

Acute toxicity: Not classified based on available information.

Product: Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg, Method: Calculation method.

Acute inhalation toxicity: Acute toxicity estimate: > 10 mg/l, Exposure time: 4 h, Test atmosphere: dust/mist, Method: Calculation method.

Ingredients:

Alcohols, C7-C21, ethoxylated:

Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg

Hydrogen peroxide:

Acute oral toxicity: LD50 (Rat): 693.7 mg/kg., Method: OECD Test Guideline 401.

Acute inhalation toxicity: LC50 (Rat): > 0.17 mg/l, Exposure time: 4 h, Test atmosphere: vapor, Assessment: The substance or mixture has no acute inhalation toxicity.

Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg. Assessment: The substance or mixture has no acute dermal toxicity.

Skin corrosion/irritation: Not classified based on available information.

Ingredients:

Alcohols, C7-C21, ethoxylated.

Result: No skin irritation.

Hydrogen peroxide:

Result: Corrosive after 3 minutes or less of exposure.

Serious eye damage/eye irritation: Causes serious eye irritation.

Ingredients: Alcohols, C7-C21, ethoxylated:

Result: Irritation to eyes, reversing within 7 days.

Hydrogen peroxide:

Result: Irreversible effects on the eye.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Ingredients: Alcohols, C7-C21, ethoxylated:

Routes of exposure: Skin contact.

Species: Guinea pig.

Method: OECD Test Guideline 406.

Result: negative.

Germ cell mutagenicity: Not classified based on available information.

Ingredients:

Hydrogen peroxide:

Genotoxicity in vitro: Test Type: Ames test

Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay). Species: Mouse. Result: negative.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: Not classified based on available information.

Ingredients:

Hydrogen peroxide:

Assessment: May cause respiratory irritation.

STOT-repeated exposure: Not classified based on available information.

Repeated dose toxicity

Ingredients:

Hydrogen peroxide: Species: Mouse. Application Route: Ingestion.

Exposure time: 90 Days. Symptoms: No adverse effects.

Aspiration toxicity: Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients: Alcohols, C7-C21, ethoxylated: Toxicity to fish: LC50: 70.1 mg/l, Exposure time: 48 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia sp. (Water flea)): 5.3 mg/l. Exposure time: 48 h.

Hydrogen peroxide: Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l Exposure time: 96 h.

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia pulex (Water flea)): 2.4 mg/l, Exposure time: 48 h.

Toxicity to algae: EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l Exposure time: 72 h, NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l Exposure time: 72 h.

Toxicity to daphnia and other aquatic invertebrates (Chron flea): NOEC (Daphnia magna (Water: 0.63 mg/l, Exposure time: 21 d ic toxicity).

Toxicity to microorganisms: EC50: > 1,000 mg/l, Exposure time: 3 h, Method: OECD Test Guideline 209.

Persistence and degradability

Ingredients: Alcohols, C7-C21, ethoxylated: Biodegradability: Result: Readily biodegradable, Biodegradation: > 60 %, Exposure time: 28 d.

Hydrogen peroxide: Biodegradability: Result: rapidly degradable. Bioaccumulative potential.

Ingredients: Alcohols, C7-C21, ethoxylated: Partition coefficient: n-octanol/water: Remarks: No data available 9 / 12.

Hydrogen peroxide: Partition coefficient: n-octanol/water: log Pow: -1.57 (20 °C), Remarks: Calculation.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Dispose of in accordance with local regulations. Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG: Not regulated as a dangerous good.

IATA-DGR: Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

Domestic regulation

TDG: Not regulated as a dangerous good.

15. REGULATORY INFORMATION

Volatile organic compounds (VOC) content: VOC content: 0.9 %.

The ingredients of this product are reported in the following inventories: DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

16. OTHER INFORMATION

Full text of other abbreviations

ACGIH: USA . ACGIH Threshold Limit Values (TLV)

CA AB OEL: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL: Canada. British Columbia OEL

CA QC OEL: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

ACGIH / TWA: 8-hour, time-weighted average

CA AB OEL / TWA: 8-hour Occupational exposure limit

CA BC OEL / TWA: 8-hour time weighted average

CA QC OEL / TWAEV: Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date:

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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