

Project Clean

a naturally better tomorrow

Safety Data Sheet Sections

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PREPARED BY:


Regulatory Division
Project Clean Inc.
(formerly Maxim Chemical International Inc.)

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SECTION 1: IDENTIFICATION	
Product Trade Name:	Project Clean Citrus & Peroxide Degreaser
Product Code:	
Recommended Use:	Peroxide and d-limonene based cleaner/ degreaser
Restrictions on Use:	For Food Plant, Industrial and Institutional use only
Manufacturer Name:	Project Clean Inc.
Manufacturer Address:	1607 Derwent Way, Delta, B.C. Canada V3M 6K8
Manufacturer Phone Number:	800-663-9925
Email Address of Competent Person Responsible for the SDS:	regulatory@projectclean.com
Emergency Phone Number/ 24-Hour Number:	Canada: Canutec 613-996-6666 U.S.A.: Chemtrec 800-424-9300

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SECTION 2: HAZARD IDENTIFICATION	
Physical Hazards:	NONE
Health Hazards:	SKIN CORROSION/ IRRITATION – Category 1
	EYE DAMAGE/ IRRITATION – Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3
	SENSITIZATION – SKIN – Category 1
Symbol:	
Signal word:	DANGER
Hazard Statement:	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	H335 May cause respiratory irritation.
	H317 May cause an allergic skin reaction.
PRECAUTIONARY STATEMENTS	
Prevention:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P233 Keep container tightly closed.
	P240 Ground and bond container and receiving equipment.

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SECTION 2: HAZARD IDENTIFICATION	
	P241 Use explosion-proof equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P280 Wear eye protection and protective gloves.
	P260 Do not breathe dusts or mists.
	P271 Use only outdoors or in a well-ventilated area.
	P272 Contaminated work clothing should not be allowed out of the workplace.
Responses:	P370 + P378 In case of fire: Use water fog, alcohol foam or dry chemical to extinguish.
	P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
	P321 Specific treatment (see supplemental first aid information on this label).
	P333 + P317 + P362 + P364 If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse.
	P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
	P304 + P340 + P316 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P312 Specific treatment (see supplement first aid information on this label).
Storage:	P403 + P235 + P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
	P405 Store locked up.
Disposal:	P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	Approx. Wt.%	CAS Number
Alcohol Ethoxylate	5-10	68991-48-0

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Hydrogen Peroxide	3-7	7722-84-1
C6-12 Alkyl Alcohol Ethoxylate Phosphoric Acid	1-5	68921-24-4
D-Limonene	1-5	5989-27-5

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SECTION 4: FIRST-AID MEASURES	
General Information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:	Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact:	Immediately flush exposed area with plenty of water for at least 10 minutes. If irritation persists, or if contact has been prolonged, obtain medical attention. Remove contaminated clothing and launder before reuse.
Eye Contact:	Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.
Ingestion:	Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.
Self-Protection of the First Aider:	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most Important Symptoms/ Effects, Acute and Delayed:	<p>Ingestion: May burn mouth and throat. May cause gastrointestinal irritation or ulceration.</p> <p>Inhalation: Low toxicity. Excessive exposure may cause severe irritation to the upper respiratory tract.</p> <p>Eyes and skin: Corrosive to eyes and skin. Skin turns white upon contact. Repeated or prolonged skin contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.</p>
If irritation occurs or persists, get medical attention.	

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SECTION 5: FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media:	Water fog, dry chemical powder, carbon dioxide.
Unsuitable Extinguishing Media:	None known.

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SECTION 5: FIRE-FIGHTING MEASURES	
Flammability:	Flammable liquid and vapours.
Flash Point:	51 °C (PMCC)
Special Firefighting Procedures:	Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces. Do not use CO ₂ extinguisher on this material.
Unusual Fire / Explosion Hazards:	Flammable. Can cause spontaneous combustion of flammable materials and continued support of the combustion because it liberates oxygen as it decomposes. Drying of concentrated product on clothing or other combustible material may cause fire.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide.

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SECTION 6: ACCIDENTAL RELEASE MEASURES	
Environmental Protection Precautions:	Do not release to the environment or water source.
Steps to be Taken in Case Material is Released or Spilled:	Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers. Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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SECTION 7: HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storage:	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Keep out of reach of children. Store at temperatures below 30°C and keep from freezing. Do not store in metal or galvanized containers.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
EXPOSURE LIMITS:		
OSHA (PEL): N/A	ACGIH TLV: N/A	Other exposure limit: N/A
INDIVIDUAL PROTECTION MEASURES / PERSONAL PROTECTIVE EQUIPMENT		
Appropriate Engineering Controls:	Good general ventilation.	
Skin Protection:	Hand Protection: Butyl rubber, neoprene, latex or nitrile gloves.	

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
	Other Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Appropriate footwear should be selected based on the task being performed and the risks involved.
Eye and Face Protection:	Safety glasses or splash goggles.
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Other Protective Equipment:	Eye wash, safety shower and full protective clothing recommended in the immediate work area.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Clear, colourless liquid.
Odour:	Citrus scent.
Odour threshold:	N/A
pH:	5.5-6.5
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	51 °C (PMCC)
Evaporation Rate (Water=1):	N/A
Flammability:	Flammable liquid and vapours.
Upper/Lower flammability or explosive limits:	None.
Vapour pressure:	N/A
Vapour density:	N/A
Relative density/Specific gravity (Water = 1):	1.03 @ 20°C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	Thin like water
VOCs:	N/A

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SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	N/A
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Temperatures above 30°C and below 5°C. Keep away from heat, sparks and flame. Avoid hot work and sources of ignition or on near empty containers.
Incompatibility:	Oxidizing agents, iron, copper, brass, bronze, chromium, zinc, lead, silver, manganese. Contact with combustible material may result in spontaneous combustion.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide.

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SECTION 11: TOXICOLOGICAL INFORMATION	
Likely routes of exposure:	Ingestion, skin and eye contact.
Symptoms:	May cause serious irritation to eyes and skin. May cause irritation to respiratory track. D-limonene is a known skin sensitizer.
Acute Toxicity Estimates:	LD ₅₀ Oral ATE > 2000 mg/kg
	LD ₅₀ Dermal ATE > 2000 mg/kg
	LD ₅₀ Inhalation ATE: N/A
Skin Sensitization:	This product contains roughly 0.2% of D-Limonene (CAS# 5989-27-5) which is a known skin sensitizer.
Germinal Cell Mutagenicity:	Data available on components indicates no potential germinal cell mutagenicity.
Reproductive Toxicity:	Data available on components indicates no potential reproductive toxicity.
Carcinogenicity:	Not listed by NTP, IARC, OSHA, ACGIH.
Aspiration Hazard:	Data available on components indicates no potential aspiration hazard.

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SECTION 12: ECOLOGICAL INFORMATION	
Toxicity to Fresh Water Algae:	D-Limonene (CAS# 5989-27-5): EC ₅₀ (Desmodesmus subspicatus (green algae)) 150 mg/L, Exposure Time: 72 h, Test Type: Static
Toxicity to Fish Species:	D-Limonene (CAS# 5989-27-5): LC ₅₀ (Pimephales promeals) 0.702 mg/L, Exposure Time, 96 h, Test Type: Flow-Through

SECTION 12: ECOLOGICAL INFORMATION	
	<p>Hydrogen Peroxide (CAS# 7722-84-1): LC₅₀ (Pimephales promeals) 16.4 mg/L, Exposure Time, 96 h, Test Type: N/A LC₅₀ (Lepomis macrochirus) 18-56 mg/L, Exposure Time, 96 h, Test Type: Static LC₅₀ (Oncorhynchus mykiss) 10.0-32.0 mg/L, Exposure Time, 96 h, Test Type: Static</p> <p>Alcohol Ethoxylate (CAS# 68991-48-0): LC₅₀ (Fish) 70.1 mg/L, Exposure Time, 48h, Test Type: Static</p>
Toxicity to Aquatic Invertebrates:	<p>D-Limonene (CAS# 5989-27-5): EC₅₀ (Daphnia magna (water flea)): 0.36 mg/L, Exposure Time: 48 h, Test Type: Static</p>
	<p>Hydrogen Peroxide (CAS# 7722-84-1): EC₅₀ (Daphnia magna (water flea)): 18-32 mg/L, Exposure Time: 48 h, Test Type: N/A</p>
	<p>Alcohol Ethoxylate (CAS# 68991-48-0): EC₅₀ (Daphnia magna (water flea)): 5.3 mg/L, Exposure Time: 48h, Test Type: N/A</p>
Persistence and degradability:	N/A

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SECTION 13: DISPOSAL CONSIDERATIONS	
Recommended Waste Disposal Methods:	Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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SECTION 14: TRANSPORT INFORMATION	
Canadian TDG UN Number:	UN1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (d-limonene)
Transport Hazard Class(es):	3
Packing Group:	III
Environmental Hazards:	Not available.
Special Precautions for User:	Not available.
Additional Information:	Limited Quantity Index: 5L

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SECTION 15: REGULATORY INFORMATION									
<p>HAZARD RATING INFORMATION</p> <p>4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant</p>	<p>HMIS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #0070C0; color: white; text-align: center;">2</td> <td style="background-color: #0070C0; color: white;">Health</td> </tr> <tr> <td style="background-color: #FF0000; color: white; text-align: center;">2</td> <td style="background-color: #FF0000; color: white;">Flammability</td> </tr> <tr> <td style="background-color: #FFFF00; text-align: center;">1</td> <td style="background-color: #FFFF00;">Reactivity</td> </tr> <tr> <td style="text-align: center;">B</td> <td>Personal protection</td> </tr> </table> <p>B = Safety glasses + Gloves</p>	2	Health	2	Flammability	1	Reactivity	B	Personal protection
2	Health								
2	Flammability								
1	Reactivity								
B	Personal protection								
<p>HMIS Protection Group B</p>									
<p>All pertinent hazard information has been provided in this SDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).</p>									

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SECTION 16: OTHER INFORMATION	
ACRONYM LIST	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DSL/NDL	Domestic Substances List/ Non-domestic Substance List
EC₅₀	Half maximal effective concentration
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
LC₅₀	Lethal concentration, 50%
LD₅₀	Lethal dose, 50%
MSHA	Mine Safety and Health Administration
N/A	Not Available

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SECTION 16: OTHER INFORMATION	
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified
PMMCC	Pensky-Martens Closed Cup
P_{ow}	Partition Coefficient Octanol: Water
SDS	Safety Data Sheets
STOT – SE	Specific Target Organ Toxicity – Single Exposure
STOT – RE	Specific Target Organ Toxicity – Repeated Exposure
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
UN	United Nations
VOCs	Volatile Organic Compounds
WEL	Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Project Clean Inc. (formerly Maxim Chemical International Inc.) will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.

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