# Safety Data Sheet Sections

| SECTION 1: IDENTIFICATION | |
|---|---|
| **Product Trade Name:** | Citrus Clean |
| **Product Code:** | 1300364 |
| **Recommended Use:** | Orange oil alkaline 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:** | **For Transportation Emergencies:** Canutec 613-996-6666<br>**Emergency Response Services**: Chemtrec 800-424-9300 |

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| SECTION 2: HAZARD IDENTIFICATION | |
|---|---|
| **Physical Hazards:** | NONE |
| **Health Hazards:** | SKIN CORROSION/ IRRITATION – Category 2 |
| | EYE DAMAGE/ IRRITATION – Category 1 |
| | SENSITIZATION – SKIN – Category 1 |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3 |
| | ASPIRATION HAZARD – Category 1 |
| **Symbol:** |  |
| **Signal word:** | DANGER |
| **Hazard Statement:** | H315 Causes skin irritation. |
| | H318 Causes serious eye damage. |
| | H317 May cause an allergic skin reaction. |
| | H335 May cause respiratory irritation. |
| | H304 May be fatal if swallowed and enters airways. |
| | |
| **Prevention:** | P264 Wash hands or affected area thoroughly after handling. |
| | P280 Wear protective gloves/protective clothing/eye protection/face protection. |

| SECTION 2: HAZARD IDENTIFICATION | |
|---|---|
| | P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| | P272 Contaminated work clothing should not be allowed out of the workplace. |
| | P271 Use only outdoors or in a well-ventilated area. |
| **Responses:** | P302 + P352 IF ON SKIN: Wash with plenty water. |
| | P321 Specific treatment (see supplemental first aid information on this label). |
| | P333 + P317 If skin irritation or rash occurs: Get medical help. |
| | P362 + P364 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 + P319 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. |
| | P301 + P316 + P331 IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting. |
| **Storage:** | P403 + P233 Store in a well-ventilated place. 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** |
| Sodium Dodecylbenzenesulfonate | 3-7 | 25155-30-0 |
| D-limonene | 1-5 | 5989-27-5 |
| Diethylene Glycol Butyl Ether | 1-5 | 112-34-5 |

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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 soap and 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. Contaminated work clothing must not be allowed out of the workplace. D-limonene is a known skin sensitizer. |

| SECTION 4: FIRST-AID MEASURES | |
|---|---|
| **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. Have an ophthalmologist make an evaluation of eye injury. |
| **Ingestion:** | Do not induce vomiting. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. 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:** | **Ingestion:** Aspiration into lungs may cause vomiting and lung injury. Burn mouth and throat. May cause gastrointestinal irritation or ulceration.<br>**Inhalation:** Aspiration into lungs can cause lung injury. Inhaling may cause dizziness and drowsiness.<br>**Eyes and skin:** May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Brief contact may cause skin irritation. May |
| **If irritation occurs or persists, get medical attention.** | |

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| SECTION 5: FIRE-FIGHTING MEASURES | |
|---|---|
| **Suitable Extinguishing Media:** | Water spray. |
| **Unsuitable Extinguishing Media:** | None known. |
| **Flammability:** | Not flammable. |
| **Flash Point:** | Not flammable. |
| **Special Firefighting Procedures:** | Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces. |
| **Unusual Fire / Explosion Hazards:** | Avoid contact with Aldehydes, halogens, strong acids, strong oxidizing agents, alkalis, amines, ethylene oxide, halogenated hydrocarbons, isocyanates, do not use with aluminum equipment at temperatures above 50°C (120°F) |
| **Hazardous Decomposition Products:** | Oxides of carbon. |

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| SECTION 6: ACCIDENTAL RELEASE MEASURES | |
|---|---|
| **Environmental Protection Precautions:** | Do not release to the environment or water source. |

| SECTION 6: ACCIDENTAL RELEASE MEASURES | |
|---|---|
| **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. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30°C and above 5°C. |

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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 or local exhaust ventilation for dust generated in confined areas. | |
| **Skin Protection:** | Hand Protection: Butyl rubber, neoprene, latex or nitrile gloves.<br>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:** | Use chemical goggles, safety glasses or face shield if eye contact may occur. | |
| **Respiratory Protection:** | Use NIOSH/MSHA approved dust respirator if product dust is generated. | |
| **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, pale yellow liquid |
| **Odour:** | Citrus scent. |
| **Odour threshold:** | N/A |
| **pH:** | 11.0-12.0 |
| **Melting point/Freezing point:** | N/A |
| **Initial boiling point and boiling range:** | N/A |

| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES | |
|---|---|
| **Flash Point:** | > 100 °C (Pensky Martin Closed Cup) |
| **Evaporation Rate (Water=1):** | N/A |
| **Flammability:** | Not flammable |
| **Upper/Lower flammability or explosive limits:** | None |
| **Vapour pressure:** | N/A |
| **Vapour density:** | N/A |
| **Relative density/Specific gravity (Water = 1):** | 1.01 @ 20 °C |
| **Solubility(ies):** | Soluble in water |
| **Partition coefficient: n-octanol/water:** | N/A |
| **Auto-ignition temperature:** | Not flammable |
| **Decomposition temperature:** | N/A |
| **Viscosity:** | N/A |
| **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:** | Avoid contact with Aldehydes, halogens, strong acids, strong oxidizing agents, alkalis, amines, ethylene oxide, halogenated hydrocarbons, isocyanates. |
| **Conditions to avoid:** | Temperatures above 30°C (86°F) and below 5°C (41°F). Prolonged storage may cause product to cake and become damp from atmospheric moisture. |
| **Incompatibility:** | Strong oxidizers, flammable liquid, explosive, pyrophoric substances, ammonium nitrate, organic peroxides. |
| **Hazardous Decomposition Products:** | Oxides of carbon. |

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| SECTION 11: TOXICOLOGICAL INFORMATION | |
|---|---|
| **Likely routes of exposure:** | Ingestion, skin and eye contact. |
| **Symptoms:** | Irritating to skin and eyes. D-limonene is a known skin sensitizer. |
| **Acute Toxicity Estimates:** | $LD_{50}$ Oral ATE > 2000 mg/kg |
| | $LD_{50}$ Dermal ATE > 2000 mg/kg |

| SECTION 11: TOXICOLOGICAL INFORMATION | |
|---|---|
| | $LD_{50}$ Inhalation ATE: N/A |
| **Skin Sensitization:** | 1.5% of the ingredients are classified as a 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:** | 1.5% of the ingredients are classified as an aspiration hazard. |

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| SECTION 12: ECOLOGICAL INFORMATION | |
|---|---|
| **Toxicity to Fresh Water Algae:** | **D-Limonene (CAS# 5989-27-5):**<br>$EC_{50}$ (Desmodesmus subspicatus (green algae))<br>150 mg/L, Exposure Time: 72 h, Test Type: Static |
| **Toxicity to Fish Species:** | **D-Limonene (CAS# 5989-27-5):**<br>$LC_{50}$ (Pimephales promeals)<br>0.702 mg/L, Exposure Time, 96 h, Test Type: Flow-Through |
| **Toxicity to Aquatic Invertebrates:** | **D-Limonene (CAS# 5989-27-5):**<br>$EC_{50}$ (Daphnia magna (water flea)):<br>0.36 mg/L, Exposure Time: 48 h, Test Type: Static |
| **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:** | Not regulated. |
| **UN Proper Shipping Name:** | Not regulated. |
| **Transport Hazard Class(es):** | Not regulated. |
| **Packing Group:** | Not regulated. |
| **Environmental Hazards:** | Not available. |
| **Special Precautions for User:** | Not available. |
| **Additional Information:** | Not available. |

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## SECTION 15: REGULATORY INFORMATION

**HAZARD RATING INFORMATION**

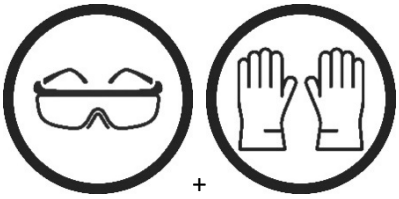
**4 = Extreme**
**3 = High**
**2 = Moderate**
**1 = Slight**
**0 = Insignificant**

**HMIS**

| | |
|---|---|
| **2** | Health |
| **0** | Flammability |
| **0** | Reactivity |
| **B** | Personal protection |

B = Safety glasses + Gloves

**HMIS Protection**
**Group B**



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).

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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/NDSL** | Domestic Substances List/ Non-domestic Substance List |
| **$EC_{50}$** | Half maximal effective concentration |
| **HMIS** | Hazardous Materials Identification System |
| **IARC** | International Agency for Research on Cancer |
| **$LC_{50}$** | Lethal concentration, 50% |
| **$LD_{50}$** | Lethal dose, 50% |
| **MSHA** | Mine Safety and Health Administration |
| **N/A** | Not Available |

| 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.