

Twin Pro Industrial

Safety Data Sheet

1.) IDENTIFICATION:

Product Name:	Citra Care
Other Means of Identification:	None
Product Use and restrictions on use:	Emulsifying Citrus Cleaner
Initial Supplier Identifier:	Twin Industrial Holdings Ltd. O/A Twin Pro Industrial 3203 Giffen Road North Lethbridge, AB T1H 0E8 403-329-4878
Prepared by	Twin Pro Industrial
Emergency Phone	CANUTEC at 1-613-996-6666

2.) HAZARDS IDENTIFICATION

Component GHS Classification

Flammable liquids:	Category 3
Skin irritation:	Category 2
Skin sensitization:	Category 1
Aspiration hazard:	Category 1

Pictograms



Signal Word

Danger

Hazard Statements

H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction

Precautionary Statements

P210 - Keep away from heat/sparks/ open flames/hot surfaces. No Smoking
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting/equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray
P264 - Wash skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water / shower.
P312 - Call a poison Center/doctor if you feel unwell.
P331 - DO NOT induce vomiting.
P333 + P313 - If skin irritation or rash occurs: get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P363 - Wash contaminated clothing before reuse.
P307 + P378 - In case of fire: Use appropriate fire extinguishers for fire control.

P391 – Collect spillage

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

3.) COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Unique Identifiers
d'Limonene	5989-27-5	80 – 100 %	Not Available

4.) FIRST AID MEASURES

Inhalation:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin Contact/Absorption:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove cloths.
Eye Contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Additional Information:	Move out of dangerous area. Show safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

5.) FIRE – FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam, carbon dioxide (CO2), Dry Chemical

Unsuitable Extinguishing Media: High volume water jet

Specific Hazards Arising From The Chemical Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion Products: Carbon monoxide, Carbon dioxide (CO2)

Specific Extinguishing Methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use a water spray to cool fully closed containers.

Special Protective Equipment For Firefighters Wear self-contained breathing apparatus for fire-fighting if necessary

Further Information Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

NFPA Flammable and Combustible Liquids Classification:
Combustible Liquid Class II

6.) ACCIDENTAL RELEASE MEASURES

Personal Precautions/ Protective Equipment/ Emergency Procedures:	Use personal Protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to from explosive concentrations. Vapors can accumulate in low areas.
Environmental Precautions:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and Materials For containment And Cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

7.) HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure – obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for Safe Storage:	No Smoking. Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precaution. Electrical Installations / working materials must comply with the technological safety standards.

8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit(s):

Component	Regulation	Type of Listing	Value
d-Limonene	ACGIH	TWA	20 ppm

Engineering Control(s)

Ventilation Requirements:	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
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Other:	Emergency shower and eyewash must be available and tested in accordance with regulation and be in close proximity.
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Protective Equipment:

Eye/Face:	Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
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Hand Protection:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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Skin and Body Protection:	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
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Respiratory Protection:	No personal respiratory protective equipment normally required.
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Hygiene measures: When using, do not eat or drink. When using, do not smoke. Wash hands before breaks and at the end of workday.

9.) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Liquid
Color: Orange
Odor: Characteristic, of oranges
Odor Threshold: Not Available

Property

pH: Not applicable
Melting Point/Freezing Point: -96°C (-141°F) (1013 hPa)
Initial Boiling Point and Boiling Range: 175 - 177°C (347 - 351°F) (1013 hPa)
Flashpoint: 43°C (109°F)
Evaporation Rate: 0.2 n-Butyl Acetate
Flammability (solid, gas): Not Available
Upper explosion Limit: 6.1 % (V)
Lower explosion Limit: 0.7 % (V)
Vapor Pressure: < 2mmHg @ 20°C (77°F)
Vapor Density: 4.7
Relative Density: 0.838 – 0.843 @ 25°C (77°C)
Solubility (ies): Soluble
Partition Coefficient: n-octanol/water: Not Available
Auto-ignition Temperature: 237°C
Decomposition Temperature: Not Available
Viscosity: Not Available

10.) STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Stability: Stable under normal conditions

Possibility of Hazardous Reactions: Vapors may form explosive mixture with air. Stable under normal conditions.

Conditions to Avoid: Keep away from heat, flame, sparks and other ignition sources. Exposure to air. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up.

Incompatible Materials: Avoid contact with halogens, peroxides, strong acids, strong oxidizing agents, acidic clays, vinyl chloride, iodine pentafluoride.

Hazardous decomposition Products: Acrid smoke and fumes.

11.) TOXICOLOGICAL PROPERTIES

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
D'Limonene	4,400 mg/kg (rat)	>5,000 mg/kg (rabbit)	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
D'Limonene	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Skin Corrosion/Irritation:	May cause skin irritation and/or dermatitis
Serious Eye Damage/Irritation:	Irritating to eyes.
Respiratory or Skin Sensitization:	May cause sensitization by skin contact
Germ cell mutagenicity:	Test on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive Toxicity:	No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.
STOT-Single Exposure:	Not Available
STOT- Repeated Exposure:	Not Available
Aspiration Hazard:	May be fatal if swallowed and enters airways.

12.) ECOLOGICAL INFORMATION

Ecotoxicity Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
D' Limonene	EC50 (Desmodesmus Subspicatus (green algae)): 150 mg/l 72 hr	LC50 (pimephales promelas (flathead minnow)): 0.702 mg/l 96 hr	EC50 (daphnia magna (water flea)):0.36 mg/l 48 hr
Biodegradability:	Readily Biodegradable		
Bioaccumulation:	Bioaccumulation is unlikely		
Mobility:	Not Available		
Other Adverse Effects:	Not Available		

13.) DISPOSAL CONSIDERATIONS

Waste From Residues/Unused Products:	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging:	Dispose in accordance with all federal, provincial and/or local regulations including the Canadian Environmental Protection Act.

14.) TRANSPORT INFORMATION

UN:	2319
UN Proper Shipping Name:	Terpene Hydrocarbons, N.O.S.
Transport Hazard Class (es):	3
Packing Group:	III
Environmental Hazards:	Not Available
Special Precautions:	Not Available
Transport in Bulk:	Not Available
<u>TDG</u>	
Other:	Secure Containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

15.) REGULATORY INFORMATION

Note: The product listed on this SDS has been classified in accordance with the hazard criteria of the controlled products regulations. This SDS contains all the information required by those regulations.

OSHA Hazards: Combustible liquid, moderate skin irritant, moderate eye irritant

WHMIS Classification: B3 Combustible Liquid
D2B Toxic Material Causing Other Toxic Effects

16.) PREPARATION AND OTHER INFORMATION

Preparation Date Feb 2, 2017
Revised Date Feb 2, 2017

**USE THIS NUMBER IN CASE OF DANGEROUS GOODS EMERGENCY:
CANUTEC (613) 996-6666**

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator;

Twin Industrial Holdings Ltd. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers and end-users
