

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Name of the Product: Citru-Clean

Product Code: FG0170

Producer:

Perma Incorporated
605 Springs Road
Bedford, MA 01730

Telephone Number for Information - (978) 667-5161

Emergency Phone Number - (800) 255-3924 ChemTel Inc.

SECTION II – HAZARD(S) IDENTIFICATION

Classification:

Skin irritation, Category 3

Eye Irritation, Category 3

Labeling:

None Known

Hazard Statement:

None Known

Precautionary Statements:

Keep container tightly closed when not in use.

No smoking.

Wear protective gloves and eye/face protection.

Avoid contact with skin, eyes or clothing.

Store in a cool well-ventilated area.

Avoid release to the environment.

SECTION III – Composition/Information On Ingredients

Component	CAS#	Weight (%)
2-butoxyethanol	111-76-2	1 - 3
Nonylphenol polyethylene glycol ether	127087-87-0	1 - 3
Orange Terpenes	5989-27-5	3 - 6

SECTION IV – FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous Combustion Products: Decomposition products may include carbon oxides.

Fire/Explosion Hazard: None known.

Protective Equipment & Precautions For Firefighters: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Use water spray to cool fire-exposed containers.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Depending on the extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up. Do not eat, drink or smoke while cleaning up. Use a self-contained respirator, a mask with filter or a filtering mask. Wear protective clothing, safety glasses and impervious gloves (e.g. neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition: hot surfaces and open flames (see also section 7).

Environmental Precautions: Prevent spills from entering storm sewers or drains and contact with soil.

Methods for Cleaning Up:

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or other confined areas. Contain and collect spillage with absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazards as the spilled product. Note, see section 1 for emergency contact information and section 13 for waste disposal.

SECTION VII – HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment. Do not get in eyes, skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container, tightly closed, when not in use. Keep away from acids. Empty containers retain product residue and can be dangerous. Do not reuse container.

Advice on General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene measures.

KEEP OUT OF REACH OF CHILDREN

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

2-butoxyethanol 111-76-2

OSHA	permissible exposure limit	50 ppm
ACGIH	threshold limit value	25 ppm

Orange Terpenes 5989-27-5

ACGIH	time weighted average	20 ppm
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Appropriate Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Exposure Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLV(s).

Individual Protection Measures:

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

8 hours (breakthrough time): butyl rubber

Body Protection: Personal protective equipment for the body should be selected based on the task performed and the risks involved. Should be approved by a specialist before handling this product. Recommended, safety apron.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: natural rubber (latex)

SECTION IX – PHYSICAL PROPERTIES

Appearance	Yellow
Odor	Citrus
Odor Threshold	Not available
Physical State	Liquid
pH	12.0 - 13.0
Flash Point (TCC)	Not applicable. Product does not sustain combustion.
Flammability (solid, gas)	Not available
Lower and Upper Explosive Limits	Not available
Vapor Pressure	17 mmHg
Vapor Density	1.01
Relative Density	1.02
Solubility	Water soluble
Partition coefficient:	Not available
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	5 - 10 cps. @ 25°C

SECTION X – STABILITY AND REACTIVITY

Stability: This product is stable

Conditions to Avoid: Heat, open flames and other ignition sources.

Incompatible Products: Avoid contact with strong acids or strong oxidizing agents.

Hazardous Decomposition: None known.

Hazardous Reactions: Product will not undergo hazardous polymerization.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

2-butoxyethanol 111-76-2

Oral LD50 Rat: 745 mg/kg

Inhalation LC50 Rat: 550 ppm, 4 h

Dermal LD50 Rat: 1250 mg/kg

Nonylphenol polyethylene glycol ether 127087-87-0

Oral LD50 Rat: 5000 mg/kg

Dermal LD50 Rabbit: 2753 mg/kg

Orange Terpenes 5989-27-5

Oral LD50 Rat: 4,400 mg/kg

Dermal LD50 Rabbit: > 5,000 mg/kg

Chronic Toxicity

No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen or potential carcinogen by NTP, OSHA and or IARC.

Reproductive Toxicity

For similar material(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Target Organs

Eyes, Central Vascular System, Kidney, Liver, Central Nervous System

SECTION XII – Ecological Information

Aquatic Toxicity:

2-butoxyethanol 111-76-2

LC50 Oncorhynchus mykiss (Rainbow trout) 1474 mg/l, 96 h static

EC50 Daphnia magna (Water flea) 1800 mg/l, 48 h static

EC50 Pseudokirchneriella subcapitata (Green algae) 911 mg/l, 72 h static

Nonylphenol polyethylene glycol ether 127087-87-0

LC50 Pimephales promelas (fathead minnow) 1.2-9.3 mg/l, 96 h static

EC50 Daphnia magna (Water flea) 1.6-10 mg/l, 48 h immobilization

Orange Terpenes 5989-27-5

Acute LC50 0.702 mg/L

Acute EC50 0.36 mg/L

Acute EC50 150 mg/L

Primephales promelas (fathead minnow) 96h flow-through

Daphnia magna (water flea) 48h static

Desmodesmus subspicatus (green algae) 72h static

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods – Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your local State Water Board or Regional Office of the EPA.

SECTION XIV – TRANSPORTATION INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. Dangerous goods descriptions may not reflect end-use or region-specific exceptions that can be applied. For additional information, please contact the distributor listed in section 1 of this SDS.

TDG: Not Regulated

DOT: Not Regulated

IATA: Not Regulated

IMDG/IM: Not Regulated

SECTION XV – REGULATORY INFORMATION

TSCA Inventory Status: All components of this material are listed on or are exempted from the US Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations:

Section 313 of Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS#	Weight (%)	SARA 313 Status
2-butoxyethanol	111-76-2	1 - 3	Listed

SARA 311/312 Hazardous Categorization

No products were found.

TSCA 12(b) – Export Notification:

This material does not contain any components that are subject to the US Toxic Substances Control act (TSCA) section 12(b) Export Notification requirements.

Clean Air Act, Section 12 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any reportable HAPs.

Chemical Weapons Convention (CWC):

This product does not contain any listed substances.

California Proposition 65:

This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm at levels which require reporting under the state statute.

SECTION XVI – OTHER INFORMATION

Prepared By: David Sadlo
Preparation Date: February 19, 2016

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty - The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.

