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Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
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Material Safety Data Sheet

Section 1 - Product Identification

Issued by: **Chemtrec Emergency Telephone No.: 800-424-9300**
JEEN International Corporation **Chemtrec Int'l Telephone No.: 703-527-3887(Collect Calls Accepted)**
24 Madison Road
Fairfield, NJ 07004
Telephone # 973-439-1401
Revision Date: November 15, 2013

Product Name: **JEEPLEX C-10P**
Synonyms: PG; Methylethylene glycol; 1,2-dihydroxypropane; 1,2-propanediol; methyl glycol
Vitamin C; L-Ascorbic Acid
Chemical Family: Glycol Formula: C₃H₈O₂
Vitamin C Formula: C₆H₈O₆
Use Description: Solvent, carrier, intermediate, antifreeze solutions, humectant, vitamin.
OSHA Hazard Classification: Not considered hazardous per 29 CFR 1910.1200.

Section 2 - Component Data

Product Composition: CAS Or Chemical Name: 1,2-Propanediol
CAS Number: 57-55-6
CAS or Chemical Name: L-Ascorbic Acid
CAS Number: 50-81-7
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards: None established

Section 3 - Precautions for Safe Handling and Storage

Do not take internally, avoid eye contact. Upon contact with eyes, wash off with water.
Storage Conditions: Store in a cool, dry, well ventilated place. Do not store at temperatures above: 49 Deg.C (120 Deg.F)
Product Stability and Compatibility:
Shelf Life Limitations: 12 Months
Incompatible Materials for Packaging: Storage in unlined mild steel may cause discoloration and alter flavor.
Incompatible Material for Storage or Transport: Do not store or ship with strong oxidizers as a spill may result in fire.

Section 4 - Physical Data

| | | | |
|---------------------|----------------------------------|--|----------------|
| Appearance: | Clear, colorless, viscous liquid | Solubility in Water: | Complete |
| Freezing Point: | -60 Deg. C (-76 Deg.F) | Volatile, Percent by Volume: | No data |
| Boiling Point: | 187.4 Deg. C (369 Deg. F) | Evaporation Rate: | No data |
| Decomposition Temp: | No data | Vapor Density: | 2.62 |
| Specific Gravity: | 1.04 | Odor: | Slight |
| Bulk Density: | 8.64 Lbs./gal | Coefficient of Oil/Water Distribution: | No data |
| pH @ 25 Deg. C: | Not applicable | Vapor Pressure @ 25 Deg. C: | < 0.1mm Hg |
| Molecular Weight: | 76.1(PG) | | 176.13 (Vit.C) |

Section 5 - Personal Protective Equipment Requirements

Personal Protection for Routine Use of Product:
Respiratory Protection: Respiratory protection not normally required.
Ventilation: Use general exhaust ventilation.
Skin and Eye Protective Equipment: Impermeable gloves and chemical goggles.



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Section 5 - Personal Protective Equipment Requirements Continued...

Equipment Specifications (When applicable):

| | |
|---------------------------|--|
| Respirator Type: | Not normally required |
| Protective Clothing Type: | This includes: gloves, boots, apron, protective suit): Impermeable |

Section 6 - Fire and Explosion Hazard Information

Flammability Data:

| | | |
|--|-------------------------|---------------------------------|
| Flammable: | No | |
| Combustible: | No | |
| Pyrophoric: | No | |
| Flash point: | 107 Deg. C (225 Deg. F) | Test Method: Cleveland Open Cup |
| Autoignition Temperature: | 415 Deg. C (779 Deg. F) | |
| Flammable Limits at Normal Atmospheric Temperature and Pressure (% Volume in Air): | LEL - 2.6% | UEL - 12.5% |

NFPA Ratings:

| | |
|---------------|---|
| Health: | 0 |
| Flammability: | 1 |
| Reactivity: | 0 |

HMIS Ratings:

| | |
|---------------|---|
| Health: | 0 |
| Flammability: | 1 |
| Reactivity: | 0 |

Extinguishing Media:

Alcohol foam, carbon dioxide, dry chemical, water spray

Fire Fighting Techniques and Comments:

Use water to cool containers exposed to fire. See Section 11 for protective equipment for fire fighting.

Section 7 - Reactivity Information

Conditions under which this product may be unstable:

| | |
|-----------------------------------|---------------------------------|
| Temperatures above: | 218 Deg. C (425 Deg. F) |
| Mechanical shock or impact: | No |
| Electrical (Static) Discharge: | No |
| Hazardous Polymerization: | Will not occur |
| Incompatible Material: | Strong oxidizers |
| Hazardous Decomposition Products: | Carbon dioxide; carbon monoxide |

Summary of Reactivity:

| | |
|-------------------|----|
| Oxidizer: | No |
| Pyrophoric: | No |
| Organic Peroxide: | No |
| Water Reactive: | No |

Section 8 - First Aid

| | |
|-------------|--|
| Eyes: | Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the Upper lower eyelids. If eye irritation develops, call a physician. |
| Ingestion: | Immediately drink water to dilute. Consult a physician if symptoms develop. |
| Inhalation: | This product is not toxic by inhalation. Remove individual to fresh air. |



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Section 9 - Toxicology and Health Information

Routes of Absorption: Ingestion
Warning Statements and Warning Properties: Do not take internally, prolonged contact with the eyes may cause irritation. Prolonged or repeated skin contact may cause irritation.
Human Threshold Response Data:
Odor Threshold: No data
Irritation Threshold: No data
Immediately Dangerous to Life or Health: The IDLH concentration has not been established for this product.

Signs, Symptoms and Effects of Exposure:

Inhalation

Acute: No significant adverse effects to health would be expected to occur from inhalation with normal use of this product due to its low volatility and vapor pressure.
Chronic: There are no known or reported effects from chronic exposure.

Skin

Acute: Contact with the skin is not expected to produce appreciable irritation. Skin contact may cause transient redness if not washed off and left on the skin for an extended period of time. This irritant effect would not be expected to result in permanent damage.
Chronic: There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

Eye

Propylene glycol has not caused any eye injury in humans or laboratory animals. However, contact with the eyes may cause transient eye redness, stinging, twitching and tearing if not washed out and left in the eye for an extended period of time. No corneal involvement or visual impairment would be expected.

Ingestion

Acute: Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.
Chronic: There are no known or reported effects from chronic exposure except for effects similar to those experienced for single exposure.

Medical Conditions Aggravated by Exposure

There are no medical conditions known to be aggravated by exposure.

Interactions with Other Chemicals which Enhance Toxicity

There are no chemicals known to enhance the toxicity of the product.

Animal Toxicology

Acute Toxicity:

| | |
|-------------------|---|
| Inhalation LC 50: | No data |
| Dermal LD 50: | > 2 g/kg (rabbit) |
| Oral LD 50: | > 5 g/kg (rat) |
| Irritation: | May cause mild skin and eye irritation from prolonged acute exposure. |

Acute Target Organ Toxicity

No organs known to be damaged from exposure to this product. May cause mild eye and skin irritation from prolonged acute exposure.

Chronic Target Organ Toxicity

There are no known or reported effects from repeated exposure.

Reproductive and Developmental Toxicity

There are no known or reported effects on reproductive function or fetal development from exposure to this product.

Continuous breeding reproduction studies were conducted using mice and rats. The animals were



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fed propylene glycol in their feed or water. No adverse effects on reproduction were found in either species. Propylene glycol has been tested and was found to be non-teratogenic in mice, and it does not affect maternal or embryo-toxicity in mice, rats, hamsters, or rabbits.

Section 9 - Toxicology and Health Information Continued

Carcinogenicity

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Propylene glycol has been tested for carcinogenicity in rats and mice. It was found to be non-carcinogenic in both a feeding study using rats and in a skin application study using mice.

Mutagenicity

This product is not known or reported to be mutagenic.

Propylene glycol has been tested in a battery of in vitro and in vivo mutagenicity and genotoxicity assays. The weight of evidence from these assays suggests that propylene glycol is not mutagenic.

Aquatic Toxicity

| | |
|---|---------------------------------|
| Goldfish (<i>Carassius auratus</i>), 24 hr LC 50: | > 5000 mg/l (measured, static) |
| Rainbow trout (<i>Salmo gairdneri</i>), 24 hr Acute lethality/mortality (non-LC50 testing): | > 50,000 mg/l (nominal, static) |
| Brine shrimp, 24 hr. LC50: | > 10,000 mg/l (nominal, static) |
| Daphnia magna, 48 hr EC50: | > 10,000 mg/l (nominal, static) |

Section 10 - Transportation Information

This material is not regulated as a DOT hazardous material.

Section 11 - Spill and Leakage Procedures

For all Transportation Accidents, call 973-812-9087.

Reportable Quantity: Not applicable

Spill Mitigation Procedures:

Evacuate all non-essential personnel. Hazardous concentrations in air may be found in local spill area and immediately downwind. Utilize emergency response personal protective equipment prior to the start of any response. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.

Air Release:

Vapors may be suppressed by the use of water fog. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

Water Release:

This material is heavier than and soluble in water. Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, create an overflow dam to contain material. Remove with a vacuum systems or pumping device for treatment and/or disposal. Continue to handle as described in land spill.

Land Spill:

Create a dike or trench to contain materials. Spill materials may be absorbed using sand or vermiculite. Do not place spill materials back in their original container. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using strong detergent and flush with large amounts of water.

Spill Residues:

Dispose of per guidelines under Section 12, Waste Disposal.

Section 12 - Waste Disposal

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a non-hazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration. CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN



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COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Section 13 - Regulatory Information

Toxic Substances Control Act:

This substance is listed on the Toxic Substances Control Act inventory.

Superfund Amendments and Reauthorization Act Title III:

Hazard Categories, per 40 CFR 370.2:

Health: None

Physical: None

Emergency Planning and Community Right To Know, per 40 CFR 355, APP>A:

Extremely Hazardous Substance - Threshold Planning Quantity: None Established

Supplier Notification Requirements, per 40 CFR 372.45: None Established

Risk Phrases: R22 Harmful if swallowed.
R36 Irritating to eyes.

Safety Phrases: S2 Keep out of the reach of children
S26 In cast of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 If swallowed, seek medical advice immediately and show this container or label.

Section 14 – Ecological Information

N/A

Section 15 – Hazards Ingredients

Not considered hazardous per 29 CFR 1910.1200.

Section 16 – Other Information

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with applicable federal, state and local regulations remains the responsibility of the user