

# MATERIAL SAFETY DATA SHEET

## PIPE DEFENSE

PIPE DEFENSE  
Revision 1  
Revision Date: 9/25/2013

### 1. COMPANY AND PRODUCT IDENTIFICATION

**Product Name** PIPE DEFENSE  
**Description** Blue-colored liquid with citrus fragrance  
**Company** Comanera, Inc.  
4005 S.E. Grimes Blvd.  
Grimes, Iowa, USA 50111  
Comanera@Gmail.com  
**Telephone** +1 (515) 270-9121  
**Fax** +1 (515) 276-1979

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is a buffered and preserved aqueous solution containing naturally-occurring viable bacterial cultures, surfactant, dye, and fragrance.

#### HAZARDOUS INGREDIENTS

<u>Name</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>	<u>% BY WEIGHT</u>
-------------	--------------	-----------------	------------------	--------------------

This product does not contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200, except as any listed above.

### 3. HAZARDS IDENTIFICATION

**Ingestion:** Ingestion of large amounts may cause vomiting and diarrhea.  
**Skin Contact:** Mild skin irritant.  
**Eye Contact:** Mild eye irritant.  
**Inhalation:** May cause mild irritation to mucous membranes, nose and throat.

### 4. FIRST AID MEASURES

**Eye Contact:** Rinse immediately with plenty of water for several minutes holding the eyelids open.  
**Skin Contact:** Wash off immediately with plenty of soap and water. Remove contaminated clothing.  
**Inhalation:** Move the exposed person to fresh air.  
**Ingestion:** Rinse mouth and throat thoroughly with water and then drink some water to dilute.

**Seek medical attention if irritation or any other symptom persists.**

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Product does not support combustion. Use Foam, Carbon Dioxide, Dry chemical, or Water fog for surrounding fire.
<b>Protective equipment:</b>	Wear suitable respiratory equipment when necessary.
<b>Unusual Fire &amp; explosion Hazards:</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Wear disposable gloves and eye protection.
<b>Environmental precautions:</b>	Do not allow large amounts of product to be released uncontained. Prevent further spillage by containment.
<b>Clean up methods:</b>	For small releases, clean spillage area thoroughly with plenty of water and wash residue to drain. For large releases, dispose in compliance with all federal, state, and/or local regulations.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes and skin. Adopt good chemical hygiene practices when handling, carrying and dispensing.
<b>Storage:</b>	Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Store the product in containers that are labelled correctly, and keep away from children, food items and drinking water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure limits:</b>	None applicable to raw materials in this product.
<b>Engineering measures:</b>	Ensure adequate ventilation of the working area.
<b>Respiratory protection:</b>	None is required when adequate ventilation is provided.
<b>Hand protection:</b>	As a precaution, wear chemical resistant gloves (PVC, neoprene or butyl).
<b>Eye protection:</b>	Safety glasses or chemical goggles are recommended.
<b>Protective equipment:</b>	Wash all contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Blue colored liquid
<b>Fragrance:</b>	Citrus
<b>pH:</b>	6.5 – 8.8
<b>Water solubility:</b>	Complete
<b>Boiling Point:</b>	210 deg. F
<b>Flash Point:</b>	None
<b>Flammability:</b>	Non-flammable
<b>Vapor Pressure:</b>	No data available
<b>Specific Gravity:</b>	1.01

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Freezing temperatures or in excess of 120 deg. F.
<b>Hazardous decomposition products:</b>	Possible oxides of carbon (CO, CO <sub>2</sub> )
<b>Incompatibilities:</b>	Strong acids and alkalis, and strong oxidizing agents may react with product and inactivate bacterial cultures.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute oral LD50:</b>	No data available.
<b>Pathogenic Risk:</b>	Viable bacterial cultures are Class I and non-pathogenic.
<b>Carcinogenicity:</b>	<b>IARC:</b> NO <b>NTP:</b> NO <b>OSHA:</b> NO

## 12. ECOLOGICAL INFORMATION

<b>Eco-toxicity:</b>	This product is not expected to be dangerous to the environment with respect to mobility, persistency and biodegradability, bio-accumulative potential, aquatic toxicity, and other data related to eco-toxicity.
----------------------	---

## 13. DISPOSAL CONSIDERATIONS

<b>General Information:</b>	Dispose of in compliance with Federal, State and/or current local authority regulations.
-----------------------------	--

## 14. TRANSPORTATION INFORMATION

<b>Further information</b>	This product is classified as a non-hazardous liquid for transport.
----------------------------	---

## 15. REGULATORY INFORMATION

Preparation does not contain ingredients listed as dangerous substances in Annex 1 of the EEC directive 67/548.

All ingredients are listed in the US Toxic Substance Control Act (TSCA).

**16. OTHER INFORMATION**

<b>Hazardous Material Information System (HMIS)</b>	<b>HEALTH</b>	<b>1</b>
	<b>FLAMMABILITY</b>	<b>0</b>
	<b>PHYSICAL HAZARD</b>	<b>0</b>
	<b>PERSONAL PROTECTION</b>	<b>B</b>

**ADDITIONAL INFORMATION**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.

---

Prepared by: MAA  
Date: 9/25/2013

END OF MSDS