

# SAFETY DATA SHEET

## 3n1 Total-C

VERSION 2.1



REVISION DATE 08/09/2016

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : **3n1 Total-C**  
Product Use : Drain Additive / Technical microbial preparation

#### MANUFACTURER OR SUPPLIER'S DETAILS

Company : Power Line Industries, Inc.  
Address : 14773 Heritage Crest Way  
Riverton, UT 84065  
Telephone : 801-545-0777

#### EMERGENCY TELEPHONE NUMBERS

|                         |   |                                    |
|-------------------------|---|------------------------------------|
| For SDS Information     | : | Compliance Services 1-866-624-8186 |
| For a Medical Emergency | : | 1-800-222-1222 or DIAL 911         |
| For a Transportation    | : | ChemTel, Inc. 1-800-255-3924       |

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communications Standard (GHS – Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |               |
|------------|---------------|
| Appearance | Liquid        |
| Color      | Red           |
| Odor       | Orange/Citrus |

#### GHS Classification

Classification of the product is in accordance with 29CFR 1910.1200

|                                   |             |
|-----------------------------------|-------------|
| Acute toxicity – Oral             | Category 4  |
| Serious Eye damage/eye irritation | Category 2A |
| Respiratory Sensitization         | Category 1  |
| Skin sensitization                | Category 1  |

**GHS Label Element**

Hazard Pictograms :



Hazard Statement :

- : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- : May cause an allergic skin reaction
- : Causes eye irritation
- : May be harmful if swallowed

**Precautionary Statements – Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray. Wear eye/face protection. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.

**Precautionary Statements – Response**

|            |  |
|------------|--|
| Eyes       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. |
| Skin       | IF ON SKIN: Gently wash with plenty of soap and water  |
| Inhalation | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing       |
| Ingestion  | If SWALLOWED: Rinse mouth. DO NOT induce vomiting.<br>Call a POISON CENTER or doctor/physician if you feel unwell.               |

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**Precautionary Statements – Disposal**

Dispose of unused product and container in accordance with all applicable local and regional requirements.

**Potential Health Effects****Carcinogenicity:**

- IARC** 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.
- ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous Components

| Chemical Name   | CAS-No.        | Concentration [+/- %] |
|---|----------------|-----------------------|
| Water   | 7732-18-5      | 80                    |
| Viable Bacteria Cultures                                | Not Applicable | 5                     |
| 1, 2-Bensisothiazole-3-(2H)-one                         | 2634-33-5      | 2                     |
| Alpha-amylase   | 9000-90-2      | 5                     |
| Protease (Subtilisin)                                   | 9014-01-1      | 5                     |
| Cold Pressed Orange Oil –<br>Early/Midseason & Valencia | 8028-48-6      | 3                     |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4. FIRST AID MEASURES

- General advice** : Do not leave the victim unattended
- If inhaled** : Move to fresh air.  
If symptoms persist, call a physician
- In case of skin contact** : In case of contact, immediately flush skin with soap and plenty of water.  
Take off contaminated clothing and shoes immediately.  
Get medical attention if irritation develops and persists.  
Wash contaminated clothing before re-use.
- In case of eye contact** : Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.  
Remove contact lenses, if possible.  
If eye irritation persists, consult a specialist.
- If swallowed** : Clean mouth with water and afterwards drink plenty of water.  
If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed**

**Main Symptoms** Most important symptoms and effects, both acute and delayed. Aside from the information found under Description of first aid measures (above) and indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
  
- Specific hazards during firefighting** : May cause allergic respiratory reaction.
  
- Hazardous combustion products** : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Smoke
  
- Special protective equipment for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.  
Ensure adequate ventilation.  
Refer to protective measures listed in sections 7 and 8.
  
- Environmental precautions** : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
  
- Methods and materials for containment and cleaning up** : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling** : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin and eyes. Avoid exposure – obtain special instructions before use.
  
  - Conditions for safe storage** : Electrical installations / working materials must comply with the technological safety standards.
  
  - Materials to avoid** : Keep away from oxidizing agents and strongly acid or alkaline materials.
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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

- Respiratory protection** : No personal respiratory protective equipment under normal use required.
  
  - Eye protection** : Safety glasses
  
  - Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
  
  - Hygiene measures** : General industrial hygiene practice.
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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |   |
|----------------------------------|---|
| <b>Appearance</b>                | : liquid  |
| <b>Color</b>                     | : Opaque, Red   |
| <b>Odor</b>                      | : Orange / Citrus   |
| <b>Odor Threshold</b>            | : None  |
| <b>pH</b>                        | : 6.5 – 7.2   |
| <b>Freezing point</b>            | : 32 °F   |
| <b>Boiling point</b>             | : > 250 °C (> 482 °F) <i>Calculated Decomposes before boiling</i> |
| <b>Flash point – Closed Cup</b>  | : 247 °C (477 °F) <i>ASTM D93</i>                                 |
| <b>Flash point – Open Cup</b>    | : 292 °C (540 °F) <i>ASTM D92</i>                                 |
| <b>Evaporation rate</b>          | : > 1 (Butyl Acetate = 1)   |
| <b>Vapor pressure</b>            | : < 0.01 mmHg @ 20 °C <i>Calculated</i>                           |
| <b>Relative vapor density</b>    | : > 1 <i>Calculated (air = 1)</i>                                 |
| <b>Solubility(ies)</b>           | : 100%  |
| <b>Water Solubility</b>          | : Completely soluble  |
| <b>Auto-ignition temperature</b> | : 477 °F <i>ASTM D93</i>  |
| <b>Thermal decomposition</b>     | : None  |

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**SECTION 10. STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Reactivity</b>                         | : Stable  |
| <b>Chemical stability</b>                 | : Stable under normal conditions  |
| <b>Possibility of hazardous reactions</b> | : Stable under recommended storage conditions.<br>No hazards to be specially mentioned. |

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|   |   |  |
|---|---|--|
| <b>Conditions to avoid</b>              | : | Stable under normal conditions. Excessive temperature variations below 32 °F or above 155 °F |
| <b>Hazardous decomposition products</b> | : | Carbon oxides  |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Effects (Overview)

Citrus terpenes have been shown to have low oral toxicity ( $LD_{50} > 5$  g/kg) and low dermal toxicity ( $LD_{50} > 5$  g/kg) when tested on rabbits. Citrus terpenes also show low toxicity by inhalation ( $RD_{50} > 1$  g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively. Inhalation may cause irritation of the nose, throat and respiratory tract.

### Chronic Effects

This product is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposure can cause drying or dermatitis of skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

### Information on likely routes of exposure

|              |   |
|--------------|---|
| Inhalation   | May cause allergy or asthma symptoms or breathing difficulties if inhaled.                |
| Eye Contact  | Contact with eyes may cause irritation.   |
| Skin Contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| Ingestion    | Ingestion may cause stomach discomfort.   |

### Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

|               |  |
|---------------|--|
| Sensitization | May cause sensitization of susceptible persons |
|---------------|--|

**ACUTE TOXICITY**

Acute Oral Toxicity : LD50 (rat) : 4,400 mg/kg  
Assessment: The component/mixture is low toxic after single ingestion

**SKIN CORROSION / IRRITATION**

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

Species: rabbit

Result: Irritating to skin.

Species: guinea pig

Result: mild skin irritation

**SERIOUS EYE DAMAGE / EYE IRRITATION**

**Product:**

Remarks: Irritating to eyes.

**RESPIRATORY OR SKIN SENSITIZATION**

Test type: lymph node assay

Species: mouse

Result: May cause sensitization by skin contact.

Assessment: The product is a skin sensitizer, sub-category 1B.

Acute Oral Toxicity : Acute toxicity estimate: 2,340 mg/kg  
Method: Calculation method

Acute Dermal Toxicity : Acute toxicity estimate: 5,000 mg/kg  
Method: Calculation method

Result: The product is a skin sensitizer, sub-category 1B.

**GERM CELL MUTAGENICITY**

Genotoxicity in vitro : Test type: Mamalian cell gene mutation assay  
Test species: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test type: DNA damage and/or repair  
Test species: rat  
Cell type: Kidney cells  
Application Route: oral

# SAFETY DATA SHEET

## 3n1 Total-C

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REVISION DATE 08/09/2016

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Germ cell mutagenicity : Result: negative  
- Assessment : Test on bacterial or mammalian cell cultures did not show mutagenic effects.

### CARCINOGENICITY

Carcinogenicity – Assessment : No evidence of carcinogenicity in animal studies.

### REPRODUCTIVE TOXICITY

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** A spill may product significant toxicity to aquatic organisms and ecosystems. Therefore, it is recommended to contain spill and dispose of properly as outlined in Section 13. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing their toxicity to fish.

**Persistence/Degradability:** Product is expected to be readily biodegradable.

**Bioaccumulation/Accumulation:** No appreciable bioconcentration is expected in the environment.

**Mobility in Environment:** Citrus terpenes volatize rapidly.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste disposal method : Dispose of contents/container in accordance with local regulations.

Contaminated Packaging : Dispose of wastes in an approved waste disposal facility.

**SECTION 14. TRANSPORT INFORMATION**

International regulation

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

See Section 8.

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**SECTION 15. REGULATORY INFORMATION**

**EPCRA – Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SAFETY DATA SHEET**  
**3n1 Total-C**

VERSION 2.1



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**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**California Prop 65** : This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

|              |   |
|--------------|---|
| <b>TSCA</b>  | On TSCA Inventory                                       |
| <b>DSL</b>   | All components of this product are on the Canadian DSL. |
| <b>AICS</b>  | Not in compliance with the inventory                    |
| <b>NZIoC</b> | Not in compliance with the inventory                    |
| <b>PICCS</b> | Not in compliance with the inventory                    |
| <b>IECSC</b> | Not in compliance with the inventory                    |

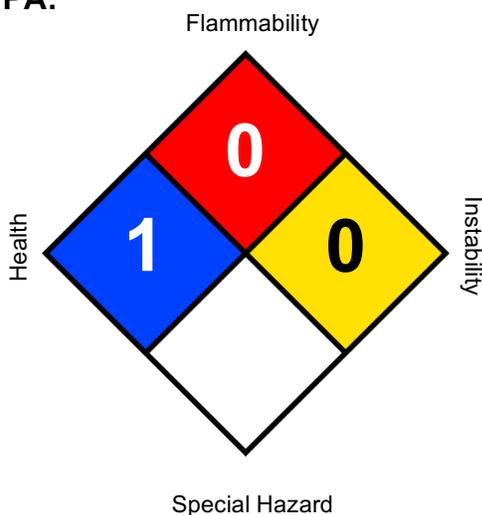
**Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IESCS (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>1</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1= slight  
 2= moderate, 3 = high  
 4= extreme, \* = chronic

**OSHA GHS Label Information:**

|                   |   |   |
|-------------------|---|---|
| Hazard Pictograms | : |  |
| Hazard Statement  | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled         |
|                   | : | May cause an allergic skin reaction   |
|                   | : | Causes eye irritation   |
|                   | : | May be harmful if swallowed   |

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