

## Section 1 Chemical Product and Company Identification

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**HOME SCIENCE TOOLS**

665 Carbon Street  
Billings, MT 59102  
800-860-6272  
www.homesciencetools.com

**CHEMTREC 24 Hour Emergency USA**  
**Phone Number (800) 424-9300**  
**1 703-741-5500 (from anywhere in the world).**  
For laboratory and industrial use only.  
Not for drug, food or household use.

|                |                               |
|----------------|-------------------------------|
| <b>Product</b> | <b>ISOPROPYL ALCOHOL, 90%</b> |
|----------------|-------------------------------|

|                 |                           |
|-----------------|---------------------------|
| <b>Synonyms</b> | Isopropanol, 90% Solution |
|-----------------|---------------------------|

## Section 2 Hazards Identification

**Signal word:** DANGER**Pictograms:** GHS02 / GHS07**Target organs:** Central nervous system, Liver, Kidneys.**GHS Classification:**

Flammable liquid (Category 2)

Eye irritation (Category 2)

STOT-SE (Category 3)

**GHS Label information: Hazard statement(s):**

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

**Precautionary statement(s):**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

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 mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P337+P313: If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

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

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

| Chemical Name     | CAS #     | %   | EINECS    |
|-------------------|-----------|-----|-----------|
| Isopropyl alcohol | 67-63-0   | 90% | 200-661-7 |
| Water             | 7732-18-5 | 10% | 231-791-2 |

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL, IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

## Section 8 Exposure Controls / Personal Protection

| Exposure Limits: | Chemical Name | ACGIH (TLV)                  | OSHA (PEL)                           | NIOSH (REL)                  |
|------------------|---------------|------------------------------|--------------------------------------|------------------------------|
|                  | Isopropanol   | TWA: 200 ppm / STEL: 400 ppm | TWA: 400 ppm / 980 mg/m <sup>3</sup> | TWA: 400 ppm / STEL: 500 ppm |

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

|                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance:</b> Clear, colorless liquid.<br><b>Odor:</b> Aromatic odor.<br><b>Odor threshold:</b> Data not available.<br><b>pH:</b> Data not available.<br><b>Melting / Freezing point:</b> -90°C (-130°F)*<br><b>Boiling point:</b> 82°C (179.6°F)*<br><b>Flash point:</b> 18.3°C (65°F) CC * | <b>Evaporation rate ( Butyl acetate = 1):</b> >1<br><b>Flammability (solid/gas):</b> Data not available.<br><b>Explosion limits: Lower / Upper:</b> 2% / 12% *<br><b>Vapor pressure (mm Hg):</b> 33 mm @20°C *<br><b>Vapor density (Air = 1):</b> 2.1 *<br><b>Relative density (Specific gravity):</b> 0.786-0.79 @ 20°C *<br><b>Solubility(ies):</b> Complete in water. | <b>Partition coefficient: (n-octanol / water):</b> Data not available<br><b>Auto-ignition temperature:</b> 399°C (750°F) ASTM-E659-78<br><b>Decomposition temperature:</b> Data not available.<br><b>Viscosity:</b> Data not available.<br><b>Molecular formula:</b> Mixture<br><b>Molecular weight:</b> Mixture<br><b>*Pure Isopropanol</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizing materials, caustics, aluminums, metals, nitroform, oleum, chlorinated compounds can react vigorously with this alcohol.

**Hazardous decomposition products:** Oxides of carbon.

## Section 11 Toxicological Information

**Acute toxicity:** Oral-rat LD50: 4396 mg/kg ; Inhalation-rat LC50: 72.6 mg/L/4 hours ; Dermal-rat LD50: 12,000 mg/kg

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Irritating.

**Respiratory or skin sensitization:** Not sensitizing

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

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

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans

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.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Yes

**Potential health effects:**

Inhalation: Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Continued inhalation may result in unconsciousness and death.

Ingestion: Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can develop if this occurs.

Skin: Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatitis.

Eyes: Contact causes burning sensation, redness, swelling, and/or blurred vision.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: NT8050000 [Isopropanol]

## Section 12 Ecological Information

**Toxicity to fish:** Pimephales promelas (Fish, fresh water) LC50: 9640 mg/L/96 hours [Isopropanol]

**Toxicity to daphnia and other aquatic invertebrates:** Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [Isopropanol]

**Toxicity to algae:** Scenedesmus quadricauda (Algae), LOEC50 = 1,800 mg/L/7 days [Isopropanol]

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** UN1219

**Shipping name:** Isopropanol solution

**Hazard class:** 3

**Packing group:** II

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

**2016 ERG Guide #** 129

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component         | TSCA   | CERLCA (RQ) | RCRA code  | DSL    | NDSL       | CA Prop 65                                                                                                             |
|-------------------|--------|-------------|------------|--------|------------|------------------------------------------------------------------------------------------------------------------------|
| Isopropyl alcohol | Listed | Not listed  | Not listed | Listed | Not listed | This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. |

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 13-May-2015

Revision Number 2



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name permanent marker black ink

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Pens

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name Wenzhou Aihao Pen Trade Co., Ltd

Supplier Address No.128, Wenchang Road, Longwan Zone  
Wenzhou  
Zhejiang  
325011  
CN

Supplier Phone Number Phone:86-13524536325  
Contact Phone86-021-68622126

Supplier Email 732314056@qq.com

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                                                  |            |
|--------------------------------------------------|------------|
| Skin corrosion/irritation                        | Category 2 |
| Serious eye damage/eye irritation                | Category 1 |
| Germ cell mutagenicity                           | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |



**GHS Label elements, including precautionary statements****Emergency Overview**

|                                                                                                                                                              |                                               |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------|
| <b>Signal word</b>                                                                                                                                           | <b>Danger</b>                                 |                     |
| <b>Hazard Statements</b><br>Causes skin irritation<br>Causes serious eye damage<br>Suspected of causing genetic defects<br>May cause drowsiness or dizziness |                                               |                     |
|                                                                             |                                               |                     |
| <b>Appearance</b> Black                                                                                                                                      | <b>Physical state</b> Solid containing liquid | <b>Odor</b> Alcohol |

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF EXPOSED OR CONCERNED: Get medical advice/attention  
Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

10.6% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May be harmful if swallowed  
Toxic to aquatic life with long lasting effects

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                          | CAS No      | Weight-% | Trade Secret |
|----------------------------------------|-------------|----------|--------------|
| Third Party Formulation (TP # 1196598) | Proprietary | 30 - 60  | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 15 - 40  | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 1 - 5    | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 1 - 5    | *            |

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

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.

**Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.



## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific hazards arising from the chemical**

No information available.

#### **Uniform Fire Code**

Irritant: Solid

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

#### **Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                          | ACGIH TLV                    | OSHA PEL                                                                                                                                                                         | NIOSH IDLH                                                                                                  |
|----------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Third Party Formulation (TP # 1196598) | STEL: 100 ppm<br>TWA: 50 ppm | (vacated) TWA: 100 ppm<br>(vacated) TWA: 360 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 540 mg/m <sup>3</sup>                                               | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>                  |
| Third Party Formulation (TP # 1196598) | TWA: 100 ppm                 | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 500 mg/m <sup>3</sup><br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 625 mg/m <sup>3</sup> | IDLH: 800 ppm<br>TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 625 mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** None required for consumer use. If there is a risk of contact: Tight sealing safety goggles.

**Skin and body protection** None required for consumer use. Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Solid containing liquid  | <b>Odor</b>           | Alcohol                  |
| <b>Appearance</b>     | Black                    | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                        | <u>Values</u>        | <u>Remarks Method</u> |
|----------------------------------------|----------------------|-----------------------|
| pH                                     | No data available    | None known            |
| Melting / freezing point               | No data available    | None known            |
| Boiling point / boiling range          | No data available    | None known            |
| Flash Point                            | No data available    | None known            |
| Evaporation Rate                       | No data available    | None known            |
| Flammability (solid, gas)              | No data available    | None known            |
| Flammability Limit in Air              |                      |                       |
| Upper flammability limit               | No data available    |                       |
| Lower flammability limit               | No data available    |                       |
| Vapor pressure                         | No data available    | None known            |
| Vapor density                          | No data available    | None known            |
| Specific Gravity                       | No data available    | None known            |
| Water Solubility                       | Difficult solubility | None known            |
| Solubility in other solvents           | No data available    | None known            |
| Partition coefficient: n-octanol/water | No data available    | None known            |
| Autoignition temperature               | No data available    | None known            |
| Decomposition temperature              | No data available    | None known            |
| Kinematic viscosity                    | No data available    | None known            |
| Dynamic viscosity                      | No data available    | None known            |
| Explosive properties                   | No data available    |                       |
| Oxidizing properties                   | No data available    |                       |

### Other Information

|                            |                   |
|----------------------------|-------------------|
| Softening Point            | No data available |
| VOC Content (%)            | No data available |
| Particle Size              | No data available |
| Particle Size Distribution |                   |



## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness and dizziness.                                                                                  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.                                         |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.                             |

#### Component Information

| Chemical Name                          | Oral LD50            | Dermal LD50          | Inhalation LC50                                  |
|----------------------------------------|----------------------|----------------------|--------------------------------------------------|
| Third Party Formulation (TP # 1196598) | = 5200 mg/kg ( Rat ) | = 13 g/kg ( Rabbit ) | = 54.6 mg/L ( Rat ) 4 h<br>> 24 mg/L ( Rat ) 1 h |
| Third Party Formulation (TP # 1196598) | = 1870 mg/kg ( Rat ) | -                    | > 13548 ppm ( Rat ) 4 h                          |
| Third Party Formulation (TP # 1196598) | = 1219 mg/kg ( Rat ) | -                    | -                                                |

### Information on toxicological effects

#### Symptoms

Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

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

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Sensitization</b>     | No information available.                                                                |
| <b>Mutagenic Effects</b> | There is no data available for this product. Contains a known or suspected mutagen.      |
| <b>Carcinogenicity</b>   | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Chemical Name                          | ACGIH | IARC    | NTP | OSHA |
|----------------------------------------|-------|---------|-----|------|
| Third Party Formulation (TP # 1196598) |       | Group 3 |     |      |

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

|                                 |                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity</b>    | No information available.                                                                                                                                  |
| <b>STOT - single exposure</b>   | No information available.                                                                                                                                  |
| <b>STOT - repeated exposure</b> | No information available.                                                                                                                                  |
| <b>Chronic Toxicity</b>         | Contains a known or suspected mutagen. Possible risk of irreversible effects. Carcinogenic potential is unknown.                                           |
| <b>Target Organ Effects</b>     | Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Central Nervous System (CNS). Gastrointestinal tract (GI). |
| <b>Aspiration Hazard</b>        | No information available.                                                                                                                                  |

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**  
2,458.00 mg/kg  
**ATEmix (dermal)**  
23,718.00 mg/kg (ATE)  
**ATEmix (inhalation-dust/mist)**  
99.60 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

| Chemical Name                          | Toxicity to Algae                             | Toxicity to Fish                                                                        | Toxicity to Microorganisms                                                                          | Daphnia Magna (Water Flea)                       |
|----------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Third Party Formulation (TP # 1196598) |                                               | 96h LC50: = 20.8 g/L (Pimephales promelas) 96h LC50: 4600 - 10000 mg/L (Leuciscus idus) |                                                                                                     | 48h EC50: = 23300 mg/L                           |
| Third Party Formulation (TP # 1196598) |                                               | 96h LC50: = 4480 mg/L (Pimephales promelas)                                             | EC50 = 17700 mg/L 5 min<br>EC50 = 45000 mg/L 5 h<br>EC50 = 8686 mg/L 15 min<br>EC50 = 980 mg/L 12 h | 48h EC50: 3339 - 3977 mg/L 48h EC50: = 3642 mg/L |
| Third Party Formulation (TP # 1196598) | 72h EC50: = 36 mg/L (Desmodesmus subspicatus) | 96h LC50: = 5.6 mg/L (Cyprinus carpio)                                                  |                                                                                                     | 48h EC50: = 5.2 mg/L                             |

### Persistence and Degradability

No information available.

### Bioaccumulation

| Chemical Name                          | Log Pow |
|----------------------------------------|---------|
| Third Party Formulation (TP # 1196598) | -0.437  |
| Third Party Formulation (TP # 1196598) | 0.34    |
| Third Party Formulation (TP # 1196598) | 2       |

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

#### **California Hazardous Waste Codes 331**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                          | California Hazardous Waste |
|----------------------------------------|----------------------------|
| Third Party Formulation (TP # 1196598) | Toxic<br>Ignitable         |



## 14. TRANSPORT INFORMATION

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| <b>DOT</b>                  | NOT REGULATED                                                           |
| <b>Proper Shipping Name</b> | NON REGULATED                                                           |
| <b>Hazard Class</b>         | N/A                                                                     |
| <b>TDG</b>                  | Not regulated                                                           |
| <b>MEX</b>                  | Not regulated                                                           |
| <b>ICAO</b>                 | Not regulated                                                           |
| <b>IATA</b>                 | Not regulated                                                           |
| <b>Proper Shipping Name</b> | NON REGULATED                                                           |
| <b>Hazard Class</b>         | N/A                                                                     |
| <b>IMDG/IMO</b>             | Not regulated                                                           |
| <b>Hazard Class</b>         | N/A                                                                     |
| <b>Marine Pollutant</b>     | Product is a marine pollutant according to the criteria set by IMDG/IMO |
| <b>RID</b>                  | Not regulated                                                           |
| <b>ADR</b>                  | Not regulated                                                           |
| <b>ADN</b>                  | Not regulated                                                           |

## 15. REGULATORY INFORMATION

### International Inventories

|      |                                                      |
|------|------------------------------------------------------|
| TSCA | Complies                                             |
| DSL  | All components are listed either on the DSL or NDSL. |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material



**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name                          | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|----------------------------------------|------------|---------------|--------------|--------------|----------|
| Third Party Formulation (TP # 1196598) | X          | X             | X            |              |          |
| Third Party Formulation (TP # 1196598) | X          | X             | X            |              |          |

**International Regulations****Mexico****National occupational exposure limits**

| Component                                             | Carcinogen Status | Exposure Limits                                                                                                        |
|-------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------|
| Third Party Formulation (TP # 1196598)<br>( 15 - 40 ) |                   | Mexico: TWA 200 ppm<br>Mexico: TWA 500 mg/m <sup>3</sup><br>Mexico: STEL 250 ppm<br>Mexico: STEL 625 mg/m <sup>3</sup> |

Mexico - Occupational Exposure Limits - Carcinogens

**Canada****WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

|             |                           |                       |                          |                                                                         |
|-------------|---------------------------|-----------------------|--------------------------|-------------------------------------------------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 2   | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and<br/>Chemical Hazards -<br/>Personal Protection</b><br>X |
| <b>HMIS</b> | <b>Health Hazards</b> 3 * | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 |                                                                         |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Revision Date</b> | 13-May-2015                                                                            |
| <b>Revision Note</b> | No information available                                                               |

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**

