

# Volunteer Safety Data Sheet Tenkoz, Inc.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Product name : Volunteer Herbicide

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Herbicide

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

Tenkoz, Inc.  
1725 Windward Concourse, Ste 410  
Alpharetta, GA 30005 – USA

### 1.4. Emergency telephone number

Emergency number : Exposure Calls (PROSAR): +1-866-303-6952  
Spill Calls (CHEMTREC) : +1-800-424-9300

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Flam. Liq. 4 H227  
Skin Irrit. 2 H315  
Eye Irrit. 2B H320  
Carc. 2 H351  
STOT RE 2 H373  
Asp. Tox. 1 H304

Full text of H statements : see section 16

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H320 - Causes eye irritation  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, sparks, open flames. - No smoking  
P260 - Do not breathe mist, vapours  
P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection  
P301+P310 - If swallowed: Immediately call a doctor  
P302+P352 - If on skin: Wash with plenty of soap, water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P314 - Get medical advice/attention if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
P331 - Do NOT induce vomiting  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam, Water fog to extinguish

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P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                              | Product identifier    | % (w/w)   | GHS-US classification  |
|-----------------------------------|-----------------------|-----------|--|
| Heavy Aromatic Naphtha Solvent    | (CAS No) 64742-94-5   | 55 – 65   | Flam. Liq. 4, H227<br>Asp. Tox. 1, H304  |
| Clethodim<br>(Main constituent)   | (CAS No) 99129-21-2   | 20 – 30   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>STOT RE 2, H373               |
| 1,2,4-trimethylbenzene            | (CAS No) 95-63-6      | < 7       | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Aquatic Chronic 2, H411 |
| Anionic/nonionic surfactant blend | (CAS No) trade secret | 1 – 3     | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319   |
| Naphthalene                       | (CAS No) 91-20-3      | 0.5 – 1.5 | Acute Tox. 4 (Oral), H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                 |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER or doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May cause damage to organs through prolonged or repeated exposure.
- Symptoms/injuries after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water fog.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.

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- Explosion hazard : May form flammable/explosive vapour-air mixture.  
Reactivity : No dangerous reactions known.

### 5.3. Advice for firefighters

- Precautionary measures fire : Store in dry, cool, well-ventilated area.  
Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case of fire: stop leak if safe to do so.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable gloves. rubber. Chemical goggles or safety glasses.  
Emergency procedures : Evacuate unnecessary personnel. Eliminate ignition sources.

#### 6.1.2. For emergency responders

- Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear protective rubber clothing with splash guard. rubber. Chemical goggles or safety glasses.  
Emergency procedures : Ventilate area. Stop leak, if possible without risk.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Do not discharge into drains or the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Take up in non-combustible absorbent material and shove into container for disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat/flame/sparks/hot surfaces. - No smoking.  
Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. No open flames. No smoking. Avoid breathing spray, mist, vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Keep in fireproof place. Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.  
Incompatible materials : Heat sources. Strong bases. Strong acids.  
Heat and ignition sources : Keep away from heat, sparks and flame.  
Prohibitions on mixed storage : Incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Herbicide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Volunteer |                |
|-----------|----------------|
| ACGIH     | Not applicable |

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| Volunteer  |                                     |  |
|--|-------------------------------------|--|
| OSHA   | Not applicable                      |  |
| Clethodim (99129-21-2)                           |                                     |  |
| ACGIH  | Not applicable                      |  |
| OSHA   | Not applicable                      |  |
| Heavy Aromatic Naphtha Solvent (64742-94-5)      |                                     |  |
| ACGIH  | ACGIH STEL (mg/m <sup>3</sup> )     | 10 mg/m <sup>3</sup>                     |
| OSHA   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup>                      |
| Naphthalene (91-20-3)                            |                                     |  |
| ACGIH  | ACGIH TWA (mg/m <sup>3</sup> )      | 52 mg/m <sup>3</sup>                     |
| ACGIH  | ACGIH TWA (ppm)                     | 10 ppm                                   |
| ACGIH  | ACGIH STEL (mg/m <sup>3</sup> )     | 79 mg/m <sup>3</sup>                     |
| ACGIH  | ACGIH STEL (ppm)                    | 15 ppm                                   |
| ACGIH  | Remark (ACGIH)                      | Hematologic eff; URT & eye irr; Skin; A3 |
| OSHA   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 50 mg/m <sup>3</sup>                     |
| OSHA   | OSHA PEL (TWA) (ppm)                | 10 ppm                                   |
| 1,2,4-trimethylbenzene (95-63-6)                 |                                     |  |
| ACGIH  | ACGIH TWA (mg/m <sup>3</sup> )      | 123 mg/m <sup>3</sup>                    |
| ACGIH  | ACGIH TWA (ppm)                     | 25 ppm                                   |
| OSHA   | Not applicable                      |  |
| Anionic/nonionic surfactant blend (trade secret) |                                     |  |
| ACGIH  | Not applicable                      |  |
| OSHA   | Not applicable                      |  |

### 8.2. Exposure controls

|                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | : Avoid creating mist or spray. Avoid splashing. Avoid any leak and work in fully closed specially engineered systems. Either local exhaust or general room ventilation is usually required. |
| Personal protective equipment    | : Avoid all unnecessary exposure.  |
| Hand protection                  | : Wear suitable gloves. rubber. protective gloves.   |
| Eye protection                   | : Chemical goggles or safety glasses.  |
| Skin and body protection         | : Wear suitable protective clothing. Impervious clothing.  |
| Respiratory protection           | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.                       |
| Other information                | : Do not eat, drink or smoke when using this product.  |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                            |
|---|----------------------------|
| Physical state                              | : Liquid                   |
| Appearance                                  | : Clear liquid.            |
| Colour                                      | : Amber                    |
| Odour                                       | : Aromatic                 |
| Odour threshold                             | : No data available        |
| pH  | : 4.11 1% solution @ 25 °C |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : No data available        |
| Flash point                                 | : 62.8 °C Closed Cup       |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Flammability (solid, gas)                   | : No data available        |

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|                                  |  |
|----------------------------------|--|
| Explosive limits                 | : No data available                                    |
| Explosive properties             | : Product is not explosive.                            |
| Oxidising properties             | : Can react vigorously with oxidizers.                 |
| Vapour pressure                  | : No data available                                    |
| Relative density                 | : .96 g/mL @ 20°C                                      |
| Relative vapour density at 20 °C | : No data available                                    |
| Solubility                       | : Insoluble in water. Soluble in hydrocarbon solvents. |
| Log Pow                          | : No data available                                    |
| Log Kow                          | : No data available                                    |
| Auto-ignition temperature        | : No data available                                    |
| Decomposition temperature        | : No data available                                    |
| Viscosity                        | : 2.05 cP @ 25°C                                       |
| Viscosity, kinematic             | : 2.096 cSt (calculated)                               |
| Viscosity, dynamic               | : 6 mPa.s @ 25 °C                                      |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

### 10.5. Incompatible materials

Strong bases. Strong acids.

### 10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Nitrogen oxides. Sulphur oxides. Toxic chlorine compounds.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                           |                                    |
|---------------------------|------------------------------------|
| Likely routes of exposure | : Inhalation; Skin and eye contact |
| Acute toxicity            | : Not classified                   |

| Volunteer                                   |  |
|---|--|
| LD50 oral rat                               | 2.92 g/kg female; 3.61 g/kg male; similar product Select 2EC Herbicide (Low Flash Point) |
| LD50 dermal rabbit                          | > 5 g/kg similar product Select 2EC Herbicide (Low Flash Point)                          |
| LC50 inhalation rat (mg/l)                  | > 5.4 mg/l/4h similar product Select 2EC Herbicide (Low Flash Point)                     |
| ATE US (oral)                               | 2920.000 mg/kg bodyweight  |
| Clethodim (99129-21-2)                      |  |
| LD50 oral rat                               | 1360 (1360 - 1630) mg/kg (from SDS for Arysta Technical (≥93%) Clethodim)                |
| LD50 dermal rat                             | > 5000 mg/kg   |
| LD50 dermal rabbit                          | > 5000 mg/kg (from SDS for Arysta Technical (≥93%) Clethodim)                            |
| LC50 inhalation rat (mg/l)                  | 3.9 mg/l/4h (from SDS for Arysta Technical (≥93%) Clethodim)                             |
| ATE US (oral)                               | 1360.000 mg/kg bodyweight  |
| ATE US (vapours)                            | 3.900 mg/l/4h  |
| ATE US (dust,mist)                          | 3.900 mg/l/4h  |
| Heavy Aromatic Naphtha Solvent (64742-94-5) |  |
| LD50 oral rat                               | > 5000 mg/kg   |
| LD50 dermal rabbit                          | > 2000 mg/kg   |
| LC50 inhalation rat (mg/l)                  | > 5.28 mg/l/4h   |

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| <b>Naphthalene (91-20-3)</b> |                                |
|------------------------------|--------------------------------|
| LD50 oral rat                | 490 mg/kg                      |
| LD50 dermal rabbit           | 20 g/kg                        |
| LC50 inhalation rat (mg/l)   | > 340 mg/m <sup>3</sup> 1 hour |
| ATE US (oral)                | 490.000 mg/kg bodyweight       |
| ATE US (dermal)              | 20000.000 mg/kg bodyweight     |

| <b>1,2,4-trimethylbenzene (95-63-6)</b> |                           |
|---|---------------------------|
| LD50 oral rat                           | 3415 mg/kg                |
| LD50 dermal rat                         | 3440 mg/kg                |
| LC50 inhalation rat (ppm)               | 954 ppm                   |
| ATE US (oral)                           | 3415.000 mg/kg bodyweight |
| ATE US (dermal)                         | 3440.000 mg/kg bodyweight |
| ATE US (dust,mist)                      | 1.500 mg/l/4h             |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes eye irritation.  
(Irritating to rabbits on ocular application)  
Respiratory or skin sensitisation : Not classified  
(Negative. mouse)  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.

| <b>Naphthalene (91-20-3)</b>             |   |
|--|---|
| IARC group                               | 2B - Possibly carcinogenic to humans              |
| National Toxicology Program (NTP) Status | 3 - Reasonably anticipated to be Human Carcinogen |

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard : May be fatal if swallowed and enters airways.  
Symptoms/injuries after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.  
Symptoms/injuries after skin contact : Causes skin irritation.  
Symptoms/injuries after eye contact : Causes eye irritation.  
Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>Clethodim (99129-21-2)</b> |  |
|-------------------------------|--|
| LC50 fish 1                   | > 33 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 hr 83.3% purity |
| EC50 Daphnia 1                | 20.2 mg/l  |
| ErC50 (algae)                 | 11.4 mg/l Green Algae  |

| <b>Naphthalene (91-20-3)</b>   |   |
|--------------------------------|---|
| LC50 fish 1                    | > 0.91 (0.91 - 2.82) mg/l <i>Oncorhynchus mykiss</i> (From Koppers SDS) |
| EC50 Daphnia 1                 | >= 1.96 mg/l From Koppers SDS   |
| EC50 other aquatic organisms 1 | 33 mg/l From Sigma-Aldrich SDS  |
| LC50 fish 2                    | > 1 (1 - 6.5) mg/l <i>Pimpephales promelas</i> (From Sigma-Aldrich SDS) |
| LOEC (acute)                   | 3.2 mg/l From Sigma-Aldrich SDS   |
| NOEC (acute)                   | 1.8 mg/l From Sigma-Aldrich SDS   |

| <b>1,2,4-trimethylbenzene (95-63-6)</b> |            |
|---|------------|
| LC50 fish 1                             | 7.72 mg/l  |
| LC50 other aquatic organisms 1          | 3.6 mg/l   |
| EC50 other aquatic organisms 1          | 2.356 mg/l |

### 12.2. Persistence and degradability

| <b>Heavy Aromatic Naphtha Solvent (64742-94-5)</b> |                         |
|--|-------------------------|
| Persistence and degradability                      | Not rapidly degradable. |
| Biodegradation                                     | 39 %                    |

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### 12.3. Bioaccumulative potential

#### Naphthalene (91-20-3)

|            |                     |
|------------|---------------------|
| BCF fish 1 | >= 427 (427 - 1158) |
|------------|---------------------|

### 12.4. Mobility in soil

#### Heavy Aromatic Naphtha Solvent (64742-94-5)

|                  |                   |
|------------------|-------------------|
| Mobility in soil | Migrates to soil. |
|------------------|-------------------|

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Non-bulk (≤ 119 gallons) : Not regulated  
Bulk (>119 but <960 gallons) : NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III  
RQ Bulk (≥960 gallons) : NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III, RQ(Naphthalene)  
ERG : 128

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable  
Marine pollutant :

### Air transport

#### IATA

Transport hazard class(es) (IATA) : Not applicable  
Marine pollutant :

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Clethodim (99129-21-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

|                                     |  |
|-------------------------------------|--|
| CERCLA RQ                           | 100 lb   |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard<br>Immediate (acute) health hazard |

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### Clethodim (99129-21-2)

Not listed on the Canadian DSL (Domestic Substances List) inventory

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### Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory

### Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List) inventory

### 1,2,4-trimethylbenzene (95-63-6)

Listed on the Canadian DSL (Domestic Substances List) inventory

### EU-Regulations

#### Clethodim (99129-21-2)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Naphthalene (91-20-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Carc. 2 H351

STOT RE 2 H373

Asp. Tox. 1 H304

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

### National regulations

#### Clethodim (99129-21-2)

Not listed on European List of Notified Chemical Substances (ELINCS)

Not listed on the Canadian Non-Domestic Substances List (NDSL)

#### Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on Taiwan National Chemical Inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

#### Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Chinese Catalog of Hazardous Chemicals

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Taiwan National Chemical Inventory

#### 1,2,4-trimethylbenzene (95-63-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Chinese Catalog of Hazardous Chemicals



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### 15.3. US State regulations

| Naphthalene (91-20-3)                                 |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| Yes   | No  | No  | No  |                                   |

### Naphthalene (91-20-3)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### 15.4. US EPA – FIFRA Regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. [EPA Registration No. 66330-353-55467]

|                              |   |  |
|------------------------------|---|--|
| Signal word (FIFRA)          | : | WARNING  |
| Hazard statements (FIFRA)    | : | Causes substantial but temporary eye irritation. Avoid contact with skin. Do not get in eyes, on clothing or on skin. Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.   |
| ENVIRONMENTAL HAZARDS        | : | Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment wash water or rinsate.<br><br>The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist: <ul style="list-style-type: none"><li>- Solano Grass: Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west.</li><li>- Wild Rice: Hays County, Texas</li></ul> |
| PHYSICAL OR CHEMICAL HAZARDS | : | Combustible. Do not use or store near heat or open flame.  |

### SECTION 16: Other information

|                            |   |   |
|----------------------------|---|---|
| Indication of changes      | : | GHS classification information.   |
| Revision date              | : | 12/03/2015  |
| Data sources               | : | ACGIH (American Conference of Government Industrial Hygienists)<br>European Chemicals Agency (ECHA) Registered Substances list. Accessed at <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> .<br>Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.<br>National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.<br>TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html</a> .<br>Canadian Centre for Occupational Health and Safety. Accessed at: <a href="http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html">http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html</a> |
| Abbreviations and acronyms | : | ATE: Acute Toxicity Estimate.<br>CLP: Classification, Labelling, Packaging.<br>CAS (Chemical Abstracts Service) number.<br>GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).<br>EC50: Environmental Concentration associated with a response by 50% of the test population.<br>LD50: Lethal Dose for 50% of the test population.<br>OSHA: Occupational Safety & Health Administration.<br>STEL: Short Term Exposure Limits.<br>TSCA: Toxic Substances Control Act.<br>TWA: Time Weight Average.  |

# Volunteer Safety Data Sheet Tenkoz, Inc.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

|      |   |
|------|---|
| H226 | Flammable liquid and vapour                                       |
| H227 | Combustible liquid  |
| H302 | Harmful if swallowed  |
| H304 | May be fatal if swallowed and enters airways                      |
| H315 | Causes skin irritation  |
| H319 | Causes serious eye irritation                                     |
| H320 | Causes eye irritation   |
| H332 | Harmful if inhaled  |
| H351 | Suspected of causing cancer                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life  |
| H410 | Very toxic to aquatic life with long lasting effects              |
| H411 | Toxic to aquatic life with long lasting effects                   |

NFPA health hazard

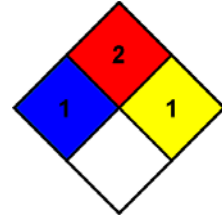
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



Redstone SDS US GHS for Arysta

**SDS Prepared by:**

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*