MATERIAL SAFETY DATA SHEET

Tenkoz Inc.

Tenkoz Lo-Vol 4 Herbicide

Effective Date: 14-Dec-09
Product Code

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Tenkoz Lo-Vol 4 Herbicide

COMPANY IDENTIFICATION:
Tenkoz Inc.
100 North Point Center East
Alpharetta, GA 30022

2. COMPOSITION/INFORMATION ON INGREDIENTS:

2,4-Dichlorophenoxyacetic acid, 2-ethylhexyl ester CAS # 001928-43-4 65.9%

Other Ingredients, Total, Including:
Petroleum Hydrocarbons, Light Odorless CAS # 064742-47-8 34.1%
Polyglycol 26-3 (ethylene oxide) CAS # 069029-39-6

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not ‘Hazardous’ per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW
Hazardous Chemical. Amber liquid with a hydrocarbon odor. May cause moderate eye irritation. Prolonged contact may cause skin irritation. Toxic to aquatic organisms. Flash Point: 150°F (66°C)
EMERGENCY PHONE NUMBER: 800-424-9300

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause moderate eye irritation. Corneal injury is unlikely.

SKIN: Prolonged contact may cause skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Repeated skin contact may result in absorption of harmful amounts. The dermal LD₅₀ has not been determined.

INGESTION: Low toxicity if swallowed. Single dose oral LD₅₀ has not been determined. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

INHALATION: Prolonged exposure is not expected to cause adverse effects. Mist may cause irritation of upper respiratory tract (nose and throat).
SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: In animals, effects have been reported on the following organs: gastrointestinal tract, kidney, liver and muscular system. Observations in animals include gastrointestinal effects and vomiting. For the solvent, in animals, effects have been reported on the following organs following exposure to aerosols: central nervous system and respiratory tract. Observations in animals include anesthetic or narcotic effects.

CANCER INFORMATION: Various animal cancer tests have shown no reliable positive association between 2,4-D exposure and cancer. Epidemiology studies on herbicide use have been both positive and negative with the majority being negative.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. In laboratory animals, however, exposures having no adverse effects on the mother had other harmful effects on the fetus.

REPRODUCTIVE EFFECTS: Excessive dietary levels of 2,4-D acid have caused decreased weight and survival in offspring in a rat reproduction study.

4. FIRST AID:

EYES: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

SKIN: Wash skin with plenty of water.

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

NOTE TO PHYSICIAN: The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES:

FLASH POINT: 150°F (66°C)

METHOD USED: TCC

FLAMMABLE LIMITS:
- LFL: Not determined
- UFL: Not determined

EXTINGUISHING MEDIA: Water fog, foam, CO₂, dry chemical.

FIRE & EXPOSURE HAZARDS: Noxious vapors formed under fire conditions. Contain water from fire-fighting to prevent entry to water supplies.
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FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS/LEAKS: Absorb small spills in an inert material such as clay. Dike the area of large spills, report to CHEMTREC on 800-424-9300.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep out of reach of children. Avoid contact with eyes, skin, and clothing. Do not take internally. Avoid breathing mists or vapors. Users should wash thoroughly after mixing, loading, or applying this product. Read the product label for further information concerning the use of personal protective equipment relative to the Worker Protection Standard of 1993.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE(S):
2,4-D isooctyl ester: none established; ACGIH TLV and OSHA PEL are 10 mg/M³ for the acid.
Hydrotreated Light Distillate: ACGIH TLV is 200 mg/M³, TWA, Skin.
Polyglycol 26-3: Dow AgroSciences Industrial Hygiene Guide is 10 mg/M³.
PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. If respiratory irritation is experienced, use a NIOSH approved air-purifying respirator for organic vapors.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use chemically protective clothing resistant to this material. Selection of specific items such as face shield, gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

EYE/FACE PROTECTION: Use chemical goggles.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.
9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: >300°F (150°C)
VAPOR PRESSURE: Not determined
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: Emulsifies
SPECIFIC GRAVITY: Approx. 1.03 68/68°F (20°C/20°C)
APPEARANCE: Amber liquid
ODOR: Hydrocarbon odor

10. STABILITY AND REACTIVITY:

STABILITY: Avoid temperatures near or above the flash point.

INCOMPATIBILITY: Acid, base.

HAZARDOUS DECOMPOSITION PRODUCTS: Noxious gases and fumes under fire conditions - hydrogen chloride and others.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: Animal mutagenicity studies were inconclusive. In-vitro mutagenicity studies were negative in some cases and positive in other cases.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL DATA: This product is toxic to aquatic organisms. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. 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 contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Excess wastes are toxic. Improper disposal of excess wastes are a violation of federal law and may contaminate groundwater. If these wastes cannot be disposed by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.
14. TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION INFORMATION:

FOR BULK SHIPMENTS:

DO NOT SHIP BY AIR.

FOR ALL OTHER MODES OF TRANSPORTATION:

COMBUSTIBLE LIQUID, N.O.S./
COMBUSTIBLE LIQUID/NA1993/PGIII/RQ (2,4-D ESTER)/MARINE POLLUTANT

15. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-D 2-Ethylhexyl ester</td>
<td>001928-43-4</td>
<td>65.9%</td>
</tr>
</tbody>
</table>

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.
STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum hydrocarbons, Light odorless</td>
<td>064742-47-8</td>
<td>PA1</td>
</tr>
<tr>
<td>2,4-D Esters</td>
<td>025168-26-7</td>
<td>PA1, PA3</td>
</tr>
</tbody>
</table>

PA1=Pennsylvania Hazardous Substance (present at \( \geq 1.0\% \)).
PA3=Pennsylvania Environmental Hazardous Substance (present at \( \geq 1.0\% \)).

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>RQ</th>
<th>% in Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-Dichlorophenoxy Esters</td>
<td>025168-26-7</td>
<td>100</td>
<td>65.9%</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION:

MSDS STATUS: New
Reference: DR-0168-8160