Tenkoz Inc.

VOLLEY* CORN HERBICIDE

Emergency Phone: 800-424-9300 Tenkoz Inc. Alpharetta, GA 30022

Effective Date: 6-Sept-06 Product Code: 102379

INHALATION: Move person to fresh air. If person is not PRODUCT AND COMPANY IDENTIFICATION: 1. breathing, call an emergency responder or ambulance, and **PRODUCT:** Volley* Corn Herbicide then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control **COMPANY IDENTIFICATION:** center or doctor for treatment advice. If breathing is difficult Tenkoz Inc. oxygen should be administered by qualified personnel. 100 North Point Center East Alpharetta, GA 30022 NOTE TO PHYSICIAN: If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung 2. **HAZARDOUS IDENTIFICATIONS:** aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether **EMERGENCY OVERVIEW** to induce vomiting or not should be made by a physician. Light to dark amber liquid with an organic odor. May cause No specific antidote. Treatment of exposure should be eve and skin irritation. Toxic to aquatic organisms and directed at the control of symptoms and the clinical avian species. condition of the patient. EMERGENCY PHONE NUMBER: 800-424-9300 5. FIRE FIGHTING MEASURES: 3. **COMPOSITION/INFORMATION ON INGREDIENTS:** FLASH POINT: >200°F (>93°C) METHOD USED: TCC COMPONENT CAS NUMBER W/W% Acetochlor 034256-82-1 70.9 EXTINGUISHING MEDIA: Water fog, alcohol foam, carbon 037764-25-3 12.4 Dichlormid dioxide, dry chemical or halogenated agents. Naphthalene 000091-20-3 0.8 15.9 FIRE AND EXPLOSION HAZARDS: If heated above the Balance flash point, heavy vapors can flow along surfaces to distant 4. FIRST AID: ignition sources and flash back. EYES: Flush eyes thoroughly with water for several FIRE-FIGHTING EQUIPMENT: A self-contained breathing minutes. Remove contact lenses after initial 1-2 minutes apparatus with full-face piece and full protective clothing and continue flushing for several additional minutes. If must be worn in fire conditions. effects occur, consult a physician, preferably an ophthalmologist. 6. **ACCIDENTAL RELEASE MEASURES:** ACTION TO TAKE FOR SPILLS/LEAKS: Wear suitable SKIN: Remove material from skin immediately by washing protective clothing and eye protection to prevent skin and with soap and plenty of water. Remove contaminated eve contact. Absorb small spills with materials such as clothing and shoes while washing. Seek medical attention if sand, sawdust, Zorball, or dirt and shovel into an open irritation persists. Wash clothing before reuse. Discard drum. Wash exposed body areas thoroughly after handling. items, which cannot be decontaminated, including leather Report large spills to Tenkoz Inc. at 800-424-9300. articles such as shoes, belts, and watchbands. HANDLING AND STORAGE: 7. **INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a PRECAUTIONS TO BE TAKEN IN HANDLING AND poison control center or doctor. Do not give any liquid to the STORAGE: Keep out of reach of children. Avoid contact person. Do not give anything by mouth to an unconscious with eyes and skin. Keep away from food, drink and animal person. feeding stuffs. Exercise due caution to prevent damage to or leakage of the container. Store product in a cool, dry, well ventilated area, away from flammable materials and sources of heat or flame, in the original container with the

lid tightly closed.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES:

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

EXPOSURE GUIDELINES:

Acetochlor: Dow AgroSciences Industrial Hygiene Guide is 0.1 mg/M^3 .

Naphthalene: ACGIH TLV is 10 ppm TWA, 15 ppm STEL, Skin, A4. OSHA PEL is 10 ppm TWA.

A 'skin' notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

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:

EYE/FACE PROTECTION: Use safety glasses. If exposure causes eye discomfort, use a NIOSH approved full-face respirator.

SKIN PROTECTION: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use a NIOSH approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use a NIOSH approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

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

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ted for conditions where the BOILING POINT: NA Emergency conditions may SPECIFIC GRAVITY: 1.11

SPECIFIC GRAVITY: 1.11 DENSITY @ 68°F (20°C): 9.25 lb/gal SOLUBILITY IN WATER: Dispersible APPEARANCE: Light to dark amber liquid ODOR: Organic pH: 7.6 (1% dilution in DI water)

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: If product is involved in a fire, carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen dioxide, and sulfur dioxide may be formed.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

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

EYES: May cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.

SKIN: Prolonged contact may cause moderate skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD_{50} has not been determined. Acetochlor and dichlormid have caused allergic skin sensitization in guinea pigs.

INGESTION: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. The oral LD_{50} has not been determined. Swallowing may result in gastrointestinal irritation. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Ingestion of large amounts may result in central nervous system depression.

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INHALATION: Brief exposure (minutes) to easily attainable concentrations may cause adverse effects. The aerosol LC₅₀ has not been determined.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Acetochlor has been reported to cause effects on the following organs in animals: blood, central nervous system, kidney, liver, testes, respiratory tract, and eyes. Dichlormid has been reported to cause effects on the following organs in animals: central nervous system, liver and muscles.

CANCER INFORMATION: Acetochlor has caused cancer in laboratory animals. Contains naphthalene, which has caused cancer in some laboratory animals. An increase in lung tumors was observed in female, but not male, mice exposed to naphthalene by inhalation for two years. In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative.

TERATOLOGY (BIRTH DEFECTS): Acetochlor and dichlormid did not cause birth defects in animals; other fetal effects occurred only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: In laboratory animal studies on acetochlor, effects on reproduction were seen only at doses that produced significant toxicity to the parent animals. Dichlormid did not interfere with reproduction in animal studies.

MUTAGENICITY: For acetochlor, in-vitro mutagenicity studies were negative in some cases and positive in other cases. Animal mutagenicity studies were predominantly negative. For dichlormid, in-vitro mutagenicity studies were negative.

	14. TRANSPORT INFORMATION:	
12. ECOLOGICAL INFORMATION:		
	U.S. DEPARTMENT OF TRANSPORTATION	
ENVIRONMENTAL FATE:	INFORMATION:	

MOVEMENT & PARTITIONING:

Based largely or completely on information for acetochlor. Bioconcentration potential is moderate (BCF is between 100 and 3000 or Log Pow between 3 and 5).

Potential for mobility in soil is medium (Koc is between 150 and 500).

Based largely or completely on information for dichlormid. Bioconcentration potential is low (BCF is <100 or Low Pow <3).

Potential for mobility in soil is medium (Koc between 150 and 500.

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DEGRADATION & PERSISTENCE:

Based largely or completely on information for dichlormid. Degradation is expected in the atmospheric environment within minutes to hours.

ECOTOXICOLOGY:

Based largely or completely on information for acetochlor. Material is highly toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is between 0.1 and 1 mg/L in the most sensitive species tested). Material is slightly toxic to birds on an acute basis (LD₅₀ is between 501 and 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC₅₀ is >5000 ppm). Based largely or completely on information for dichlormid.

Material is practically non-toxic to aquatic organisms on an acute basis (LC_{50} or EC_{50} is >100 mg/L in the most sensitive species tested).

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

INFORMATION:

For guantities <12,500 pounds by all modes of transportation:

This material is not regulated for transport.

For quantities >/=12,500 pounds by all modes of transportation:

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S./(CONTAINS NAPHTHALENE)/9/ UN3082/PG III/RQ (NAPHTHALENE)

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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:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Naphthalene	000091-20-3	0.8%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 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

TOXIC SUBSTANCES CONTROL ACT (TSCA): All

ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

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

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains a chemical(s) known to the State of California to cause cancer. The chemicals are acetochlor and naphthalene. Emergency Phone: 800-424-9300 Tenkoz Inc. Alpharetta, GA 30022

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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.

CHEMICAL NAME	CAS NUMBER	LIST
Naphthalene	000091-20-3	PA1 PA3 NJ2 NJ3

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%). NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%). PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%). PA3=Pennsylvania Environmental Hazardous Substance

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

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:

Chemical Name	CAS#	RQ	% in Product
Naphthalene	000091-20-3	100 lb.	0.8%

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health2Flammability0Reactivity0

16. OTHER INFORMATION:

MSDS STATUS: Revised Sections: 2 Reference: TIME*20737 Replaces Document Dated: 9-Mar-06

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Tenkoz Inc. for Further Information.