

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Resist Herbicide EPA Reg. No.: 71368-83-55467

Product Type: Herbicide

Company Name: TENKOZ, INC.

1725 Windward Concourse

Suite 410

Alpharetta, GA 30005

Telephone Numbers: For Medical Emergencies, Call 1-877-325-1840

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,

Call CHEMTREC Day or Night: 1-800-424-9300

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

Combustible Dust

HEALTH HAZARDS:

Eye Irritation Category 2A Carcinogen Category 2

ENVIRONMENTAL HAZARDS:

Aquatic Acute Toxicity

Aquatic Chronic Toxicity

Category 1

Category 1

SIGNAL WORD:

WARNING

HAZARD STATEMENTS:

May form combustible dust concentrations in air during processing. Causes serious eye irritation. Suspecting of causing cancer by inhalation. Very toxic to aquatic life with long lasting effects.







PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not use until all safety precautions have been read and understood. Wash hands thoroughly after handling. Wear protective gloves and eye protection. Avoid release to the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

If exposed or concerned: Get medical advice.

Collect spillage.

Store locked up.

Dispose of contents in accordance with local, state, and federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS COMPONENTS CAS NO. % BY WEIGHT Metribuzin 21087-64-9 62 – 66 Chlorimuron Ethyl 90982-32-4 10.5 – 11.5		
COMPONENTS	CAS NO.	% BY WEIGHT
Metribuzin	21087-64-9	62 – 66
Chlorimuron Ethyl	90982-32-4	10.5 – 11.5
Kaolin	1332-58-7	8.3 – 9.1
Crystalline Silica (quartz)	14808-60-7	< 0.1
Titanium dioxide	13463-67-7	< 0.25
Silicon dioxide (chemically prepared)	112945-52-5	0.1
Other Ingredients	Trade Secret	Trade Secret

Synonyms: Mixture containing Metribuzin (4-amino-6-*tert*-butyl-4,5-dihydro-3-methylthio-1,2,4-triazin-

5-one) and Chlorimuron ethyl (Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl) amino]

carbonyl] amino] sulfonyl] benzoate)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin with plenty of water for several minutes. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If breathing is difficult, administer oxygen. If symptoms develop, get medical advice.

Most important symptoms/effects, acute and delayed: Causes eye irritation. May cause slight skin irritation. Inhalation of dust may cause respiratory irritation. Prolonged inhalation of dust is suspected of causing cancer. **Indication of immediate medical attention and special treatment needed, if necessary:** Immediate medical attention should not be required.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard. If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later. **Hazardous Decomposition Materials (Under Fire Conditions):** May produce oxides of carbon, sulfur and nitrogen and hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. Eliminate ignition sources.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Avoid creation of dusty conditions. If dry, sweep or scoop up material and place into container for disposal. If wet, pump any free liquid into an appropriate closed container. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

HANDLING:

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Avoid breathing dust. Avoid contact with eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE:

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves made of any waterproof material. Washing facilities should be readily accessible to the work area. **Respiratory Protection:** Not normally required. If dust, vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

•	OSHA		ACGIH		
Component	TWA	STEL	TWA	STEL	Unit
Metribuzin	NE	NE	NE	NE	
Chlorimuron Ethyl	NE	NE	NE	NE	
Kaolin	15 (T) 5 (R)	NE	2.0 (R)	NE	mg/m³
Crystalline Silica (quartz)	50 (R) %SiO ₂ +2	NE	25 (R)	NE	μg/m³
Titanium dioxide	15 (T)	NE	10	NE	mg/m3
Silicon dioxide (chemically prepared)	15 (T) 5 (R)	NE	NE	NE	mg/m3
Other Ingredients	NE	NE	NE	NE	

NE = Not Established

T= Total Dust

R= Respirable Fraction

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: beige granular solid

Odor: mild odor

Odor threshold: No data available

pH: 5.66 (1% w/w dispersion in DIW)

Melting point/freezing point:No data availableInitial boiling point and boiling rangeNo data available

Flash point: Not applicable due to product form

Evaporation rate: No data available Flammability (solid, gas): No data available **Upper/lower flammability or explosive limits:** No data available Vapor pressure: No data available Vapor density: Not applicable Relative density: 0.478 g / cc (tap) No data available Solubility(ies): Partition coefficient: n-octanol/water: No data available No data available **Autoignition temperature: Decomposition temperature:** No data available

Viscosity: No data available

No data available

No data available

No data available

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Keep away from heat, sparks and open flame. Minimize dust generate and accumulation.

Incompatible Materials: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Under fire conditions may produce oxides of carbon, sulfur and nitrogen

and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye contact, Skin contact.

Symptoms of Exposure:

Eve Contact: Causes substantial but temporary eye injury.

Skin Contact: Slightly toxic and slightly irritating based on toxicity studies.

Ingestion: Slightly toxic based on toxicity studies.

Inhalation: Low inhalation toxicity. Dust may be irritating to the respiratory system.

Delayed, immediate and chronic effects of exposure: Prolonged inhalation of respirable dust may cause lung

damage and increase the risk of cancer.

Toxicological Data:

Data from laboratory studies conducted on this product:

Oral: Rat LD₅₀: >5,000 mg/kg **Dermal:** Rabbit LD₅₀: >5,000 mg/kg

Inhalation: Rat 4 hr: > 2.15 mg/L (no mortalities at highest dose tested)

Eye Irritation: Rabbit: Severely irritating (MMTS=39.0) **Skin Irritation:** Rabbit: Slightly irritating (PDII=1.7)

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

Subchronic (Target Organ) Effects: Repeated overexposure to metribuzin may cause effects to body weight gains, cholesterol levels, liver and thyroid. Repeated overexposure to chlorimuron-ethyl may cause effects to liver and blood.

Carcinogenicity / Chronic Health Effects: Prolonged overexposure to metribuzin may affect liver, kidney, thyroid and blood chemistry. Metribuzin did not cause cancer in laboratory animal studies. Prolonged overexposure to chlorimuron ethyl may affect liver and blood chemistry. Chlorimuron ethyl did not cause cancer in laboratory

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animal studies. Inhalation of excessive amounts of kaolin dust may produce coughing, sneezing and nasal irritation. Inhalation of respirable titanium dioxide is suspected of causing cancer. Inhalation of respirable crystalline silica may cause silicosis and lung cancer.

Reproductive Toxicity: There was no evidence of reproductive toxicity in a 2-generation reproductive study in rats treated with metribuzin. Offspring at the highest dose exhibited reduced body weight gains starting at day 14 lactation, an age correlating with the consumption of treated diets. Reproductive data for chlorimuron ethyl in rats show nutritional and organ effects in offspring only at levels which produce other toxic effects in the adult animal. There were no effects on fertility or lactation indices in rats.

Developmental Toxicity: In animal studies, metribuzin did not cause birth defects in animals; other effects were seen in the fetus only at doses which caused toxic effects to the mother. For chlorimuron ethyl, exposure of pregnant rabbits caused developmental delays in the fetus at maternally toxic doses. However, studies in rats produced no evidence of developmental toxicity.

Genotoxicity: The metribuzin mutagenicity studies, taken collectively, demonstrate that metribuzin is not genotoxic or mutagenic. Tests have shown that chlorimuron ethyl does not cause genetic damage in bacterial or mammalian cell cultures, or in animals.

Assessment Carcinogenicity:

This product contains substances that are considered to be probable or suspected human carcinogens as follows:

	Regula	Regulatory Agency Listing As Carcinogen				
Component	ACGIH	IARC	NTP	OSHA		
Metribuzin	No	No	No	No		
Chlorimuron Ethyl	No	No	No	No		
Kaolin	A4	No	No	No		
Crystalline Silica (quartz)	A2	1	Known	No		
Titanium dioxide	A4	2B	No	No		
Silicon dioxide (chemically prepared)	No	No	No	No		
Other Ingredients	No	No	No	No		

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data on Metribuzin Technical:

96-hour LC₅₀ Bluegill: 76 mg/l Bobwhite Quail Oral LD₅₀: 169 mg/kg 96-hour LC₅₀ Rainbow Trout: 76 mg/l Bobwhite Quail 8-day Dietary LC₅₀: >4,000 ppm

48-hour EC₅₀ Daphnia: 4 mg/l

72-hour EC₅₀ Algae: 0.021 mg/L Mallard Duck 8-day Dietary LC₅₀: >5,000 mg/kg

Data on Chlorimuron Ethyl Technical:

96-hour LC $_{50}$ Bluegill: 100 mg/l Bobwhite Quail 8-day Dietary LC $_{50}$: >5,620 ppm 96-hour LC $_{50}$ Rainbow Trout: >1,000 mg/l Mallard Duck 8-day Dietary LC $_{50}$: >5,620 ppm 48-hour EC $_{50}$ Daphnia: >10 mg/l Mallard Duck Oral LD $_{50}$: >2,510 mg/kg

Environmental Fate:

Based on available data, the primary routes of degradation of metribuzin and its primary degradates are microbial metabolism and photolytic degradation on soil. These compounds will be available for leaching to ground water and runoff to surface water in many use conditions because they are not volatile. Once in ground water, metribuzin is expected to persist due to its stability to hydrolysis and the lack of light penetration. Conversely, residues of metribuzin are not likely to persist in clear, well-mixed, shallow surface water with good light penetration since parent metribuzin degrades rapidly by aqueous photolysis. Microbial degradation of chlorimuron-ethyl is fairly slow in all soil pH values with an average half-life of 7 to 8 weeks. Chlorimuron ethyl persists longer in high pH soils. Mobility and movement in soils is determined by the amount of herbicide adsorbed to the soil and is dependent on the soil pH and organic matter content. Chlorimuron ethyl is more highly adsorbed to organic matter at lower pHs. Photodegradation in is not an important degradation mechanism.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional office for guidance.

Container Handling and Disposal:

For Plastic Containers: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container half full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times.

For Fiber Sacks: Nonrefillable container. Do not reuse or refill this container. Completely empty sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then offer for recycling, if available, or dispose of sack in a sanitary landfill or by or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Fiber Drums with Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then offer for recycling, if available, or dispose of liner in a sanitary landfill or by or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Paper and Plastic Bags: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT

Non Regulated

IMDG

Non Regulated

IATA

Non Regulated

15. REGULATORY INFORMATION

EPA FIFRA INFORMATION

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.

WARNING. Causes substantial but temporary eye injury. Do not get in eyes or on clothing.

U.S. FEDERAL REGULATIONS

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):

Acute Health, Chronic Health, Fire Hazard

Section 313 Toxic Chemical(s):

Metribuzin (CAS No. 21087-64-9) 62 - 66% by weight in product. Chlorimuron ethyl (CAS No. 90982-32-4) 10.5 - 11.5% by weight in product

Reportable Quantity (RQ) under U.S. CERCLA:

None

RCRA Waste Code:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: ATTENTION. This product can expose you to chemicals including crystalline silica and titanium dioxide which are known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 2 Flammability: 2 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Tenkoz, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Tenkoz, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

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