Resist[™] Herbicide

Version 1.1

Revision Date: 09/15/2015

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Resist[™] Herbicide

Tradename/Synonym : Resist

Metribuzin: 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one Chlorimuron Ethyl: Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl)amino]carbonyl]

amino]sulfonyl]benzoate

Product Use : Herbicide

Restrictions on use :

Do not use product for anything outside of the above specified uses

Manufacturer/Distributor : Tenkoz. Inc.

1725 Windward Concourse, Suite 410

Alpharetta, GA 30005, USA

Medical Emergency

Transport Emergency

CHEMTREC: +1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Acute toxicity (Oral)

Skin irritation

Serious eye damage/eye irritation

Specific target organ toxicity
Category 2

Category 2

Category 2

Category 3

single exposure

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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Harmful if swallowed.

Causes skin and eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

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Hazardous prevention

measures

: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel

unwell.

IF ON SKIN: Wash with plenty of soap and water.

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

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/ physician if you feel unwell.

Rinse mouth.

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

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

Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Metribuzin	21087-64-9	64.3 %
Chlorimuron ethyl	90982-32-4	10.7 %
Titanium dioxide	13463-67-7	0.1 - 0.5 %

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Other Ingredients	24.5 - 24.9 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Have the product container or label with you when calling a poison control

center or doctor, or going for treatment.

For medical emergencies involving this product, call toll free 1-800-424-9300.

See Label for Additional Precautions and Directions for Use.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center or doctor for

treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion : 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 directed to do

so by a physician or poison control center.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders Notes to physician : No applicable data available.

No applicable data available.No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

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Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : Not a fire or explosion hazard. Under severe dusting conditions, this material

may form explosive mixtures in air.

Special protective equipment

for firefighters

: Wear full protective clothing and self-contained breathing apparatus.

Further information : Evacuate personnel and keep upwind of fire. Runoff from fire control may be

a pollution hazard. Control Runoff.

(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool

containers/tanks with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Dike spill. Sweep up and shovel into suitable containers for disposal. If spill

area is on ground near valuable plants or trees, remove top 2 inches of soil

after initial cleanup.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

Follow applicable Federal, State/Provincial and Local laws/regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet. Remove

clothing/PPE immediately if material gets inside. Wash thoroughly and put on

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clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon

as possible, wash thoroughly and change into clean clothing.

: Keep away from heat and sources of ignition. Handling (Physical Aspects)

Avoid dust formation.

Dust explosion class

Storage

: No applicable data available.

Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Keep out of the

reach of children.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

: Use only with adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Personal protective equipment

Skin and body protection

: Applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material, such as

polyethylene or polyvinyl chloride.

Shoes plus socks

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has

been treated, such as plants, soil, or water, is:

Chemical resistant gloves made of any waterproof material, such as

polyethylene or polyvinyl chloride.

Shoes plus socks

Protective measures : Discard clothing and other absorbent materials that have been drenched or

heavily contaminated with this product. Do not reuse them. Follow

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manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines Exposure Limit Values

Metribuzin

TLV (ACGIH) 5 mg/m3 TWA

AEL * (AGSURF) 5 mg/m3 8 & 12 hr. TWA Total dust.

Chlorimuron ethyl

AEL * (AGSURF) 10 mg/m3 8 & 12 hr. TWA Total dust.
AEL * (AGSURF) 5 mg/m3 8 & 12 hr. TWA Respirable dust.

Titanium dioxide

Permissible (OSHA) 15 mg/m3 8 hr. TWA Total dust.

exposure limit:

TLV (ACGIH) 10 mg/m3 TWA

AEL * (AGSURF) 10 mg/m3 8 & 12 hr. TWA Total dust.
AEL * (AGSURF) 5 mg/m3 8 & 12 hr. TWA Respirable dust.

Other Ingredients

No applicable data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : solid, granules

Color : brown

Odor : slight

^{*} AEL is AGSURF's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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Odor threshold : No applicable data available.

pH : 6.8 - 7.8

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative

density)

: No applicable data available.

Water solubility : dispersible

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.

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Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Polymerization will not occur.

Conditions to avoid : No applicable data available. Incompatible materials : None reasonably foreseeable.

Hazardous decomposition

products

Decomposition will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50 : > 5.3 mg/l, Rat

Dermal LD50 : > 5,000 mg/kg , Rat

Skin irritation : Skin irritation, Rabbit

Eye irritation : Mild eye irritation, Rabbit

Sensitisation : Did not cause sensitisation on laboratory animals., Guinea pig

Metribuzin

Oral LD50 : 1,030 mg/kg , Rat

Target Organs: Central nervous system

Central nervous system effects

Repeated dose toxicity : Inhalation

Rat - 21 d dust/mist

NOAEL: 0.72 mg/l LOAEL: > 0.72 mg/l

No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.

Did not cause genetic damage in cultured bacterial cells.

Genetic damage in cultured mammalian cells was observed in some

laboratory tests but not in others.

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Reproductive toxicity No toxicity to reproduction

No effects on or via lactation

Animal testing showed no reproductive toxicity.

Animal testing showed effects on embryo-fetal development at levels Teratogenicity

equal to or above those causing maternal toxicity.

Chlorimuron ethyl

Oral LD50 4,102 mg/kg, Rat

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Dermal Rabbit

No toxicologically significant effects were found.

Oral Dog

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for

classification., Abnormal decrease in number of red blood cells

Oral Rat

No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Animal testing did not show any mutagenic effects.

Reproductive toxicity No toxicity to reproduction

Teratogenicity Animal testing showed effects on embryo-fetal development at levels

equal to or above those causing maternal toxicity.

Titanium dioxide

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Oral LD50 : > 5,000 mg/kg , Rat

Repeated dose toxicity : Oral

Rat

NOAEL: 1,000 mg/kgMethod: OECD Test Guideline 408

No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.

Overall weight of evidence indicates that the substance is not

carcinogenic.

Mutagenicity : Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

Material IARC NTP OSHA

Titanium dioxide 2B

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Metribuzin

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 74.6 mg/l

72 h EC50 : Desmodesmus subspicatus (green algae) 0.007 mg/l

48 h EC50 : Daphnia magna (Water flea) 98.5 mg/l

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21 d : NOEC Oncorhynchus mykiss (rainbow trout) 5.6 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.32 mg/l

Chlorimuron ethyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 100 mg/l

72 h EC50 : Pseudokirchneriella subcapitata (green algae) 0.001 mg/l

48 h EC50 : Daphnia magna (Water flea) > 1,000 mg/l

Titanium dioxide

96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l see user

defined free text

72 h NOEC : Algae 5,600 mg/l see user defined free text

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas

where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where/when conditions favour runoff. Do not contaminate water when cleaning equipment or disposing of

equipment washwaters or rinsate.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods -

Product

: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste

disposal facility.

Waste disposal methods -

Container

: Container Refilling and Disposal:

Refer to the product label for instructions.

In the event of a major spill, fire or other emergency, call 1-800-424-9300 day

or night.

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IMDG

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Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Chlorimuron ethyl, Metribuzin)

Class : 9
Packing group : III
Labelling No. : 9MI
UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Chlorimuron ethyl, Metribuzin)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Chlorimuron ethyl, Metribuzin)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US

Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information

required by USEPA on the pesticide label:

CAUTION!

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing dust. Avoid breathing vapours or mist. Avoid

contact with skin, eyes and clothing.

SARA 313 Regulated : Metribuzin, Chlorimuron ethyl

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Chemical(s)

PA Right to Know

Regulated Chemical(s)

: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Tenkoz, Inc.

Metribuzin, Kaolin, 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide

Title III hazard classification

: Acute Health Hazard: Yes Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

CERCLA Reportable

Quantity

: 934579 lbs

Based on the percentage composition of this chemical in the product.:

Xylene

EPA Reg. No. : 352-444-55467

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions.

This product is excluded from listing requirements under EPA/TSCA.

SECTION 16. OTHER INFORMATION

NFPA

Health : 1

Flammability :

Reactivity/Physical hazard : 0

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Contact person : Tenkoz, Inc., Alpharetta, GA, 30005

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The information provided in this Safety Data Sheet is correct to the date of its publication. The information given is designed only as transportation, disposal and release and is not to be considered a relates only to the specific material designated and may not be veother materials or in any process, unless specified in the text. Significant change from previous version is denoted with a double	a guidance for safe handling, use, processing, storage, a warranty or quality specification. The information alid for such material used in combination with any	
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