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VENTUROUS® ATZ HERBICIDE

Version 2.0 / USA Revision Date: 09/20/2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name VENTUROUS® ATZ HERBICIDE

EPA Registration No. 524-485-55467

Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide

Restrictions on useSee product label for restrictions.

Information on supplier

Supplier Tenkoz, Inc.

1725 Windward Concourse, Suite 410

Alpharetta, GA 30005

USA

Emergency Telephone

Number (24hr/ 7 days) 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Oral): Category 4 Skin sensitisation: Category 1

Specific target organ toxicity - single exposure(Inhalation): Category 3

Specific target organ toxicity - repeated exposure: Category 2

Carcinogenicity: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Warning

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Hazard statements

Harmful if swallowed.

May cause an allergic skin reaction.

May cause respiratory irritation.

Suspected of causing cancer.

May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure.

Precautionary statements

Do not breathe gas/ mist/vapours/ spray.

Do not eat, drink or smoke when using this product.

Wash skin and eyes thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/ eye protection.

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

Rinse mouth.

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

If skin irritation or rash occurs: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

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

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

Store locked up.

Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No. Concentration % by weight		
34256-82-1	33.4	
1912-24-9	26.9	
121776-33-8	1.1	
	34256-82-1 1912-24-9	

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

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 physician or poison control center immediately.

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Skin contact Immediately wash with plenty of soap and water for at least 15

minutes. Take off contaminated clothing and shoes immediately. Call a

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physician or poison control center immediately.

Hold eve open and rinse slowly and gently with water for 15-20 Eye contact

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

immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth

> and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim

unattended.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen

chloride (HCI)

Advice for firefighters

Special protective

In the event of fire and/or explosion do not breathe fumes. Firefighters equipment for firefighters should wear NIOSH approved self-contained breathing apparatus and

full protective clothing. Equipment should be thoroughly

decontaminated after use.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

Flash point does not flash

Auto-ignition temperature No data available

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Explosivity Not explosive

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Use personal protective equipment. Keep unauthorized people away.

Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects

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thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal. Do

not allow product to contact non-target plants.

Reference to other sections Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Hygiene measures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Wash hands thoroughly with soap and water after handling and before

eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be

cleaned must be destroyed (burnt).

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Components	CAS-No.	Control parameters	Update	Basis
Atrazine	1912-24-9	2 mg/m3 (TWA)	03 2017	ACGIH
(Inhalable fraction.)		, ,		
Atrazine	1912-24-9	5 mg/m3 (REL)	2010	NIOSH
Atrazine	1912-24-9	5 mg/m3 (TWA)	06 2008	TN OEL
Atrazine	1912-24-9	5 mg/m3 (TWA PEL)	08 2010	US CA OEL

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment

based on actual or potential airborne concentrations and in

accordance with the appropriate regulatory standards and/or industry

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recommendations.

Hand protection Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot

be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Eye protection Use tightly sealed goggles and face protection.

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures Follow manufacturer's instructions for cleaning/maintaining PPE. If

no such instructions for washables, use detergent and warm/tepid

water.

Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form suspension
Colour light pink

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Odour slight

Odour Threshold No data available Hq 7.0 - 8.5 (5 %) Melting point/range No data available

Boiling Point

No data available

Flash point does not flash **Flammability** No data available **Auto-ignition temperature** No data available Self-accelarating

decomposition temperature

(SADT)

No data available

Upper explosion limit Not applicable Lower explosion limit Not applicable Vapour pressure No data available **Evaporation rate** No data available Relative vapour density No data available Relative density 1.11 (20 °C)

Water at 15,6 °C

Density ca. 1.11 g/cm³ (20 °C)

Water solubility emulsifiable

Partition coefficient: n-

octanol/water

Acetochlor: log Pow: 4.14 (20 °C)

Furilazole: log Pow: 2.12 (23 °C)

Viscosity, dynamic 200 - 300 cps (10 °C) Viscosity, kinematic No data available Oxidizing properties No data available **Explosivity** Not explosive

Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

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Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

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prescribed instructions.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials No incompatible materials known.

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Skin contact, Eye contact, Inhalation, Ingestion

Immediate Effects

Eye Moderate eye irritation.

Skin Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

IngestionHarmful if swallowed.InhalationHarmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) 1.338 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) > 1.1 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

No deaths

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Respiratory or skin Skin: Sensitising (Guinea pig)

sensitisation Test conducted with a similar formulation.

Assessment STOT Specific target organ toxicity - single exposure

Atrazine: Based on available data, the classification criteria are not met.

Acetochlor: May cause respiratory irritation.

Furilazole: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Atrazine caused specific target organ toxicity in experimental animal studies in the following organ(s):

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Heart.

Acetochlor caused specific target organ toxicity in experimental animal studies in the following organ(s): Kidney.

Furilazole caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver.

Assessment mutagenicity

Atrazine is not considered mutagenic.

Acetochlor was not genotoxic based on weight of evidence analysis.

Furilazole was not genotoxic based on weight of evidence analysis.

Assessment carcinogenicity

Atrazine caused mammary tumours in rats. Mode(s) of action not relevant to humans.

Acetochlor caused an increased incidence of tumours in rats in the following organ(s): Nasal, Thyroid. Mode(s) of action not relevant to humans.

Acetochlor caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only above the MTD (maximum tolerated dose). The observed effects do not appear to be relevant for humans.

Acetochlor caused lung tumours and histocytic sarcomas in mice, probably not treatment related. Furilazole caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only at doses that caused significant hepatotoxicity. Questionable relevance to humans.

Furilazole caused an increased incidence of tumours in mice in the following organ(s): Lungs. Only at doses that caused chronic inflammation. Questionable relevance to humans.

Furilazole caused an increased incidence of tumours in rats in the following organ(s): forestomach. Only at doses that caused substantial irritation. The observed effects do not appear to be relevant for humans.

ACGIH

Atrazine 1912-24-9 Group A3

NTP

None.

IARC

Atrazine 1912-24-9 Overall evaluation: 3

OSHA

None.

Assessment toxicity to reproduction

Atrazine did not cause reproductive toxicity in laboratory animals.

Reproductive effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity. Furilazole did not cause reproductive toxicity in laboratory animals.

Assessment developmental toxicity

Developmental effects in rats, rabbits seen with Atrazine are only in the presence of significant maternal toxicity.

Developmental effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity.

Acetochlor did not cause developmental toxicity in rabbits. Testicular damage in dogs only in the

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presence of substantial systemic toxicity.

Furilazole did not cause developmental toxicity in rabbits. The developmental effects seen with Furilazole are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)) 1.3 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

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LC50 (Oncorhynchus mykiss (rainbow trout)) 0.36 - 1.2 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 8 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient atrazine.

LC50 (Oncorhynchus mykiss (rainbow trout)) 8.8 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient atrazine.

LC50 (Oncorhynchus mykiss (rainbow trout)) 6.2 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the safener furilazole.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 4.6 mg/l

static test: Exposure time: 96 h

The value mentioned relates to the safener furilazole.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 8.6 - 16 mg/l static test; Exposure

time: 48 h

The value mentioned relates to the active ingredient acetochlor.

EC50 (Daphnia magna (Water flea)) 6.9 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient atrazine.

EC50 (Daphnia magna (Water flea)) 26 mg/l static test; Exposure time:

48 h

The value mentioned relates to the safener furilazole.

Toxicity to aquatic plants EbC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00501

mg/l

static test; Exposure time: 72 h

Test conducted with a similar formulation.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00027 -

0.00149 mg/l

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static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.004 - 0.130

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mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient atrazine.

EC50 (Lemna gibba (gibbous duckweed)) 0.170 mg/l

Exposure time: 5 d

The value mentioned relates to the active ingredient atrazine.

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 85.2 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the safener furilazole.

Biodegradability Acetochlor:

No data available

Furilazole: 1 %, Exposure time: 28 d

Not readily biodegradable.

Koc Acetochlor: Koc: 204

Furilazole: Koc: 56 - 341

Bioaccumulation Acetochlor: Bioconcentration factor (BCF) 20

Furilazole:

No data available

Mobility in soil Acetochlor: No data available

Furilazole: No data available

Results of PBT and vPvB assessment

PBT and vPvB assessment Acetochlor: No data available

Furilazole: No data available

Additional ecological

information

No further ecological information is available.

Environmental precautions Apply this product as specified on the label.

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 surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

Do not allow to get into surface water, drains and ground water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

Do not contaminate water, food, or feed by disposal.

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Incineration in a special incineration plant in accordance with the local

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waste regulation authority.

Follow all local/regional/national/international regulations.

Contaminated packaging Follow advice on product label and/or leaflet.

Do not re-use empty containers.

Triple rinse containers.

Puncture container to avoid re-use.

Completely empty container into application equipment, then dispose of

empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

If burned, stay out of smoke.

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal, State and local laws and

are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR, ATRAZINE SOLUTION)

IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR, ATRAZINE SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 524-485-55467

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US Federal Regulations

TSCA list

Water 7732-18-5 Atrazine 1912-24-9 1,2-Propanediol 57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Yes

US States Regulatory Reporting

CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Acetochlor 34256-82-1

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Furilazole 121776-33-8

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Atrazine 1912-24-9 Developmental toxin.
Atrazine 1912-24-9 Female reproductive toxin.

US State Right-To-Know Ingredients

Atrazine 1912-24-9 CA, CT, MN, NJ, RI

1,2-Propanediol 57-55-6 MN, RI

Environmental

CERCLA

None.

Clean Water Section 307(a)(1)

None

Safe Drinking Water Act Maximum Contaminant Levels

Yes

Acetochlor 34256-82-1

Yes

Atrazine 1912-24-9

EPA/FIFRA Information:

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

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Signal word: Caution!

Hazard statements: Harmful if swallowed.

Harmful if inhaled.

Causes moderate eye irritation. May cause allergic skin reaction.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation

Previous Version Date: 08/06/2020

Reason for Revision: New brand Safety Data Sheet

Revision Date: 09/20/2023

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