

## COMPLY HERBICIDE

Date: 9/21/2021  
Replaces: 8/7/2018

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **COMPLY HERBICIDE**  
EPA Registration No.: 100-1414-55467  
Use: Herbicide  
Manufacturer: Tenkoz, Inc.  
1725 Windward Concourse, Suite 410  
Alpharetta, GA 30005  
Emergency Phone: 800-424-9300

### 2. HAZARDS IDENTIFICATION

Classifications: Specific Target Organ Toxicity: Repeated Category 2  
Respiratory Sensitizer: Category 1A  
Skin Sensitizer: Category 1A  
Carcinogenicity: Category 1B  
Signal Word (OSHA): Danger  
Hazard Statements: May cause an allergic skin reaction  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause cancer  
May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If exposed or concerned: Get medical advice/attention.  
Store locked up.  
In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms: Call a poison center, doctor or CHEMTREC.  
Contaminated work clothing must not be allowed out of the workplace.  
Do not breathe mist, vapors, spray.  
If skin irritation occurs: Get medical advice.

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If on skin: Wash with plenty of soap and water.  
 Get medical advice if you feel unwell.  
 See Section 4 First Aid Measures.  
 Wear protective gloves, protective clothing, eye protection.  
 Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Polymeric 1,1 - methylenebis[isocyanato]benzene	Polymeric 1,1 - methylenebis[isocyanato]benzene	Trade Secret	<1%
Ammonium Nitrate	Ammonium Nitrate	6484-52-2	<3%
2-chloro-4-ethylamino-6-isopropylamino-s-triazine	Atrazine	1912-24-9	19%
2H-1,4-Benzoxazine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-	Benoxacor	98730-04-2	0.95%
Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S)	S-Metolachlor	87392-12-9	19%
2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	Mesotrione	104206-82-8	2.44%

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

### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling CHEMTREC (800-429300), a poison control center or doctor, or going for treatment.

- Ingestion:** If swallowed: Call CHEMTREC (800-424-9300), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-424-9300 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call CHEMTREC (800-424-9300), a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call CHEMTREC (800-424-9300), a poison control center or doctor for treatment advice.
- Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call CHEMTREC (800-424-9300), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

- Allergic skin reaction
- Respiratory Sensitization

Indication of immediate medical attention and special treatment needed:

- There is no specific antidote if this product is ingested.
- Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

None known.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other
Polymeric 1,1 - methylenebis[isocyanato]benzene	Not Established	Not Established	Not Established
Ammonium Nitrate	Not Established	Not Established	Not Established
Atrazine	Not Established	2 mg/m <sup>3</sup> TWA (inhalable)	Not Applicable
Benoxacor	Not Established	Not Established	1 mg/m <sup>3</sup> TWA
S-Metolachlor	Not Established	Not Established	5 mg/m <sup>3</sup> TWA
Mesotrione	Not Established	Not Established	5 mg/m <sup>3</sup> TWA

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Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

## Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## Eye Contact:

Where eye contact is likely, use splash-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## Skin Contact:

Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.

## Inhalation:

A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Olive green to tan, opaque liquid

Odor: Paint

Odor Threshold: Not Applicable

pH: 4.0 - 4.8 (neat 68°F)

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Atrazine 2.9 x 10<sup>-7</sup> mmHg @ 68°F (20°C)  
Benoxacor 4.4 mmHg @ 68°F (20°C)  
Mesotrione < 4.3 x 10<sup>-8</sup> mmHg @ 68°F (20°C)  
S-Metolachlor 2.8 x 10<sup>-5</sup> mmHg @ 77°F (25°C)

Vapor Density: Not Available

Relative Density: 1.1 g/ml

Solubility (ies): Atrazine 33 mg/l @ 68°F (20°C)  
Benoxacor 60 ppm @ 77°F (25°C)  
Mesotrione 160 mg/l @ 68°F (20°C) (99.7% pure)  
S-Metolachlor 0.48 g/l @ 77°F (25°C)

Partition coefficient: n-octanol/water: Not Available

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Autoignition Temperature: Not Available  
Decomposition Temperature: Not Available  
Viscosity: Not Available  
Other: None

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.  
Chemical stability: Stable under normal use and storage conditions.  
Possibility of hazardous reactions: Will not occur.  
Conditions to Avoid: Not Available  
Incompatible materials: None known.  
Hazardous Decomposition Products: Not Available

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Rash, redness or itching, Skin irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Skin irritation, Allergic skin reaction, Allergy or asthma effects

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Rat) :	5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5050 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 2.71 mg/l air - 4 hours
Eye Contact:	Mildly Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

#### Reproductive/Developmental Effects

Atrazine : None observed.  
Benoxacor : None observed.  
Mesotrione : Did not show reproductive effects in animal experiments.  
S-Metolachlor: Did not show reproductive effects in animal experiments.

#### Chronic/Subchronic Toxicity Studies

Atrazine : Cardiotoxicity in long term study with high doses (dogs).  
Benoxacor : Stomach, liver and kidney toxicity at high doses.  
Mesotrione : No adverse effect has been observed in chronic toxicity tests.

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S-Metolachlor: No adverse effect has been observed in chronic toxicity tests.

### Carcinogenicity

Atrazine : Mammary tumors (female Sprague-Dawley rats), sex and strain specific.

None observed (male Sprague-Dawley rats, F-344 rats or mice).

Benoxacor : Tumors in nonglandular portion of stomach of rodents (hitomorphologic region not found in humans).

Mesotrione : Did not show carcinogenic effects in animal experiments.

S-Metolachlor: Did not show carcinogenic effects in animal experiments.

Chemical Name	NTP/IARC/OSHA Carcinogen
Polymeric 1,1 - methylenebis[isocyanato]benzene	No
Ammonium Nitrate	No
2-chloro-4-ethylamino-6-isopropylamino-s-triazine	IARC Group 3
2H-1,4-Benzoxazine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-	No
Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S)	No
2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	No

### Other Toxicity Information

Not Available

### Toxicity of Other Components

Ammonium Nitrate

May cause moderate eye and respiratory tract irritation. May cause mild skin irritation.

Polymeric 1,1 - methylenebis[isocyanato]benzene

### Target Organs

#### Active Ingredients

Atrazine : Heart  
 Benoxacor : Gastrointestinal tract, liver, kidney  
 Mesotrione : Blood, eye, kidney, liver.  
 S-Metolachlor: Liver

#### Inert Ingredients

Ammonium Nitrate: Eye, skin, respiratory tract  
 Polymeric 1,1 - methylenebis[isocyanato]benzene: Not Applicable

## 12. ECOLOGICAL INFORMATION

### Eco-Acute Toxicity

Atrazine :  
 Fish (Rainbow Trout) 96-hour LC50 4.5 ppm  
 Green Algae 5-day EC50 49 ppb  
 Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.9 ppm

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Bird (Bobwhite Quail) 12-day LD50 940 mg/kg

Benoxacor :

Invertebrate (Water Flea) LC50/EC50 11.5 - 17 ppm

Fish (Trout) LC50/EC50 2.4 ppm

Bird (Bobwhite Quail) 8-day dietary LC50/EC50 3600 ppm

S-Metolachlor:

Fish (Rainbow Trout) 96-hour LC50 1.23 mg/l

Green Algae 96-hour ErC50 0.077 mg/l

Invertebrate (Water Flea) 48-hour EC50 11.24 mg/l

Mesotrione :

Fish (Rainbow Trout) 96-hour LC50 >120 mg/l

Fish (Bluegill Sunfish) 96-hour LC50 >120 mg/l

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 900 mg/l

Green Algae 72-hour EbC50 4.5 mg/l

### Environmental Fate

Atrazine :

The information presented here is for the active ingredient, atrazine.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 h).

Benoxacor :

The information presented here is for the active ingredient, benoxacor.

Low bioaccumulation potential. Not persistent in soil or water. Moderate mobility in soil. Sinks in water (after 24 h).

Mesotrione :

The substance has low potential for bioaccumulation. Mesotrione has medium to high mobility in soil.

S-Metolachlor:

The information presented here is for the active ingredient, S-Metolachlor.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water (after 24 h).

### 13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Not regulated

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

(S-Metolachlor, Atrazine), Marine Pollutant

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Hazard Class: Class 9  
 Identification Number: UN 3082  
 Packing Group: PG III

Air Transport  
 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
 (S-Metolachlor, Atrazine)  
 Hazard Class: Class 9  
 Identification Number: UN 3082  
 Packing Group: PG III

### 15. REGULATORY INFORMATION

**Pesticide Registration:**

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 as required on the pesticide label:

Caution: Harmful if swallowed. Causes moderate eye irritation. Wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco and using the toilet. Avoid contact with eyes and clothing.

EPA Registration Number(s):  
 100-1414-55467

**EPCRA SARA Title III Classification:**

Section 311/312 Hazard Classes: Acute Health Hazard  
 Section 313 Toxic Chemicals: Atrazine 19% (CAS No. 1912-24-9)

**CERCLA/SARA 304 Reportable Quantity (RQ):**

Not Applicable

**RCRA Hazardous Waste Classification (40 CFR 261):**

Not Applicable

**TSCA Status:**

TSCA R & D Exempt

### 16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2  
 Flammability: 1  
 Instability: 0

HMIS Hazard Ratings

Health: 2  
 Flammability: 1  
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Company Hazard Category: D,S

For non-emergency questions about this product call:

770-343-8509



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Original Issued Date: 3/7/2017  
Revision Date: 9/21/2021 Replaces: 8/7/2018  
Section(s) Revised: 1,4,8,15,16 and headers

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