

# Atrazine 4L Flowable Herbicide

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

|                           |                                |
|---------------------------|--------------------------------|
| Chemical Name             | Mixture                        |
| Trade Names               | Atrazine 4L Flowable Herbicide |
| CAS No.                   | Mixture                        |
| EPA Identification Number | EPA Reg. No. 35915-4-60063     |

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

|                      |  |
|----------------------|--|
| Identified Use(s)    | Herbicide  |
| Uses Advised Against | Do <b>NOT</b> aerosolize or atomize to produce inhalable-size particles. |

#### Details of the supplier of the safety data sheet

|                        |   |
|------------------------|---|
| Company Identification | Sipcam Agro USA, Inc.<br>2525 Meridian Parkway, Suite 350<br>Durham, NC 27713<br>United States of America |
| Telephone              | (919) 226-1195  |

#### Emergency telephone number

|                     |   |
|---------------------|---|
| Emergency Phone No. | CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887<br>(Collect calls accepted) |
|---------------------|---|

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

|                             |                                       |
|-----------------------------|---------------------------------------|
| OSHA HCS (29 CFR 1910.1200) | Acute Tox. 4; Skin Sens. 1; STOT RE 2 |
|-----------------------------|---------------------------------------|

#### Label elements

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 labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)



Signal Word(s)

**WARNING**

Hazard Statement(s)

Harmful if swallowed.  
May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure: Oral, Heart, Kidneys

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**Precautionary Statement(s)**

Do not breathe dust/mist/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash hands and exposed skin after use.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Other hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Additional Information**

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | %W/W    | CAS No.   | Hazard Statement(s)   |
|--|---------|-----------|---|
| Atrazine                               | 40 - 45 | 1912-24-9 | Acute Tox. 4; H302<br>Skin Sens. 1; H317<br>STOT RE 2; H373<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 |
| Ethylene glycol                        | ≤ 5     | 107-21-1  | Acute Tox. 4; H302<br>STOT RE 2; H373   |

**Additional Information** – None

## SECTION 4: FIRST AID MEASURES



**Description of first aid measures**

Inhalation

Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.

Skin Contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

Ingestion

Not normally required. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

Harmful if swallowed. May cause an allergic skin reaction.

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**Indication of any immediate medical attention and special treatment needed**

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

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

### Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine, hydrogen chloride, and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

### Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Do not get in eyes. Avoid contact with skin. Do not breathe dust/mist/spray. Wear protective gloves/protective clothing/eye protection/face protection.

### Environmental precautions

Prevent substance entering sewers. Avoid release to the environment.

### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with water. If possible prevent water running into sewers.

### Reference to other sections Additional Information

None  
None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Do not get in eyes. Avoid contact with skin. Do not breathe dust/mist/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

- Storage temperature
- Incompatible materials

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Strong oxidizing agents or reducing agents. Strong acids / bases.

### Specific end use(s)

Herbicide

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational Exposure Limits

| SUBSTANCE.      | CAS No.   | (8hr TWA)  |                        | (STEL)     |                     | Note:                    |
|-----------------|-----------|------------|------------------------|------------|---------------------|--------------------------|
|                 |           | PEL (OSHA) | TLV (ACGIH)            | PEL (OSHA) | TLV (ACGIH)         |                          |
| Atrazine        | 1912-24-9 | -----      | 2 mg/m3 <sup>(1)</sup> | -----      | -----               | <sup>(1)</sup> Inhalable |
| Ethylene glycol | 107-21-1  | -----      | -----                  | -----      | 100 mg/m3 (ceiling) | Aerosol only             |

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## Exposure controls

### Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure course spray only.

### Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves (PVC, Neoprene, or Natural rubber).

Respiratory protection



Not normally required.

Thermal hazards

Not normally required.

### Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses. Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| Appearance                              | Liquid                              |
| Color.                                  | White                               |
| Odor                                    | Odorless                            |
| Odor Threshold (ppm)                    | Not available                       |
| pH (Value)                              | 5.03 @ 25 °C                        |
| Melting Point/Freezing Point (C)        | Not available                       |
| Boiling point/boiling range (°C)        | 103 ± 5 °C (217.4 °F)               |
| Flash Point (°C)                        | Not flammable                       |
| Evaporation Rate                        | Not available                       |
| Flammability (solid, gas)               | Not applicable                      |
| Explosive Limit Ranges                  | Not applicable                      |
| Vapour Pressure ( Torr)                 | Not available                       |
| Vapour Density (Air=1)                  | Not available                       |
| Density (g/ml)                          | Not available                       |
| Specific Gravity                        | 11.2 @ 20 °C (typical)              |
| Solubility (Water)                      | 33 ppm @ 20 °C                      |
| Solubility (Other)                      | Not available                       |
| Partition Coefficient (n-Octanol/water) | Not available                       |
| Auto Ignition Point (°C)                | Not available                       |
| Decomposition Temperature (°C)          | Not available                       |
| Kinematic Viscosity (cSt)               | Not available / Free flowing Powder |
| Explosive properties                    | Not explosive                       |
| Oxidizing properties                    | Not available                       |
| <b>Other information</b>                | Not available                       |

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## SECTION 10: STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Reactivity</b>                         | Stable under normal conditions.  |
| <b>Chemical stability</b>                 | Stable.  |
| <b>Possibility of hazardous reactions</b> | None anticipated.  |
| <b>Conditions to avoid</b>                | Avoid contact with heat and ignition sources.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents or reducing agents. Strong acids / bases.  |
| <b>Hazardous decomposition product(s)</b> | Combustion or thermal decomposition will evolve toxic and irritant vapours: acrid smoke. Forms oxides of carbon and nitrogen, also chlorine, hydrogen chloride, and chlorinated compounds. |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Skin Contact, Eye Contact

### Information on toxicological effects

Atrazine (CAS# 1912-24-9):

|   |  |
|---|--|
| Acute toxicity (calculated / estimated) | Oral LD50: 714 - >1869 mg/kg-bw (rat)<br>Dermal LD50: >2000 mg/kg-bw (rat)<br>Inhalation LC50: > 5.8 mg/L (4 hr) (rat) |
| Irritation/Corrosivity<br>Sensitization | Unlikely to cause skin irritation. Unlikely to cause eye irritation.<br>May cause an allergic skin reaction.           |
| Repeated dose toxicity                  | May cause damage to organs through prolonged or repeated exposure:<br>Oral, Heart                                      |
| Carcinogenicity                         | Not to be expected.  |

| NTP | IARC | ACGIH | OSHA |
|-----|------|-------|------|
| No  | No   | No    | No   |

|                       |                     |
|-----------------------|---------------------|
| Mutagenicity          | Not to be expected. |
| Reproductive toxicity | Not to be expected. |

Ethylene Glycol (CAS# 107-21-1):

|                             |   |
|-----------------------------|---|
| Acute toxicity              | LD50 (oral, rat): 7712 mg/kg-bw; human experience demonstrates that lethal amounts can be ingested.<br>LD50 (dermal, rat): >3500 mg/kg-bw |
| Irritation<br>Sensitisation | Unlikely to cause eye irritation. Unlikely to cause skin irritation.<br>It is not a skin sensitiser.                                      |
| Repeated dose toxicity      | May cause damage to organs through prolonged or repeated exposure:<br>Kidneys (oral)  |
| Developmental Toxicity      | Negative. Not a specific developmental toxin.   |
| Toxicity for reproduction   | Negative. Not a specific reproductive toxin.  |
| Mutagenicity                | Negative  |
| Carcinogenicity             | Not to be expected.   |

| NTP | IARC | ACGIH | OSHA |
|-----|------|-------|------|
| No. | No.  | No.   | No.  |

|                   |      |
|-------------------|------|
| Other information | None |
|-------------------|------|

# Atrazine 4L Flowable Herbicide

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

#### Atrazine (CAS#1912-24-9):

Short term (estimated / calculated)

LC50 (96 hour): 4.5 - 11 mg/L(fish)  
EC50 (48 hour): 0.7 – 8.1 mg/L (crustacea)  
EC50 (72 hour): 0.043 mg/l (algae)

Long Term

Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

Persistent

### Bioaccumulative potential

No data

### Mobility in soil

The product has moderate mobility in soil.

### Results of PBT and vPvB assessment

No data

### Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

### Additional Information

None known.

## SECTION 14: TRANSPORT INFORMATION

|                              | Land transport<br>(U.S. DOT) * | Sea transport<br>(IMDG)  | Air transport<br>(ICAO/IATA) |
|------------------------------|--------------------------------|--|------------------------------|
| UN number                    | Not classified as dangerous    | UN 3082  | UN 3082                      |
| Proper Shipping Name         | for transport.                 | Environmentally hazardous substance, liquid, n.o.s. (Atrazine) |                              |
| Transport hazard class(es)   |                                | 9  | 9                            |
| Packing group                |                                | III  | III                          |
| Hazard label(s)              |                                | Marine Pollutant   | Marine Pollutant             |
| Environmental hazards        |                                | Yes  | Yes                          |
| Special precautions for user |                                | None Assigned  | None Assigned                |

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

\* Not regulated for shipments <10,000 gallons. Contains an RQ substance.

## SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

### EPA FIFRA Information for SDS Section 15 (Regulatory 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:

### CAUTION



# Atrazine 4L Flowable Herbicide

Harmful if swallowed.  
Harmful if absorbed through skin.  
Avoid contact with skin, eyes or clothing.  
Keep out of reach of children.

NOTE TO USER: The pesticide label also includes other important information, including directions for use.

## ENVIRONMENTAL HAZARDS:

This pesticide is toxic to aquatic invertebrates.

Do not apply directly to water, to areas where water is present or to intertidal areas below the mean high-water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinseate. ATRAZINE can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. ATRAZINE has been found in groundwater. Users are advised not to apply ATRAZINE to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Product must not be mixed or loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying atrazine to tile-outletted terraced fields containing standpipes:

- (1) Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- (2) Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire field.
- (3) Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

## Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name   | CAS No.  | Typical %wt. | RQ (Pounds) |
|-----------------|----------|--------------|-------------|
| Ethylene glycol | 107-21-1 | ≤ 5          | 5000        |

## SARA 311/312 - Hazard Categories:

- Fire   
  Sudden Release   
  Reactivity   
  Immediate (acute)   
  Chronic (delayed)

# Atrazine 4L Flowable Herbicide

**SARA 313 - Toxic Chemicals (40 CFR 372):**

| Chemical Name   | CAS No.   | Typical %wt. |
|-----------------|-----------|--------------|
| Atrazine        | 1912-24-9 | 40 - 45      |
| Ethylene glycol | 107-21-1  | ≤ 5          |

**SARA 302 - Extremely Hazardous Substances(40 CFR 355):**

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) | TPQ (Pounds) |
|---------------|---------|--------------|-------------|--------------|
| None          | -----   | -----        | -----       | -----        |

**Proposition 65 (California):**

| Chemical Name | CAS No. | Typical %wt. | Hazards |
|---------------|---------|--------------|---------|
| None          | -----   | -----        | -----   |

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

**Date of preparation:** February 17, 2016

**Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:**

**Hazard Statement(s)**

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H373: May cause damage to organs through prolonged or repeated exposure: Oral: kidney and heart.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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