

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------------------|-----------------------|
| Chemical Name | Mixture |
| Trade Names | Stalwart® 3W |
| CAS No. | Mixture |
| EPA Identification Number | EPA Reg. No. 60063-64 |

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

| | |
|----------------------|--|
| Identified Use(s) | Herbicide |
| Uses Advised Against | It is a violation of Federal law to use this product in a manner inconsistent with its labeling. |

Details of the supplier of the safety data sheet

| | |
|------------------------|---|
| Company Identification | Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 100 Durham, NC 27713 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 (Collect calls accepted) |
|---------------------|---|

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|-----------------------------|---------------------------------------|
| OSHA HCS (29 CFR 1910.1200) | Eye Irrit. 2; Skin Sens. 1; STOT RE 2 |
|-----------------------------|---------------------------------------|

Label elements

This is a pesticide product registered with 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)

Causes serious eye irritation.
May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure: Heart, Blood
Do not breathe mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wash hands and exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Contaminated work clothing should not be allowed out of the workplace.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Precautionary Statement(s)

lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF ON SKIN: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.

Get medical advice/attention if you feel unwell.

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Other hazards
Additional Information

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | %W/W | CAS No. | Hazard Statement(s) |
|--|-------|--------------|--|
| Metolachlor | ~ 19 | 51218-45-2 | Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 |
| Atrazine-1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4-(1-methylethyl)- | ~ 19 | 1912-24-9 | Acute Tox. 4; H302 Skin Sens. 1; H317 STOT- RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 |
| Mesotrione | ~ 2.5 | 104206-82-8 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 |
| Proprietary dispersing agent | 4.14 | Trade Secret | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 |

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 breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

Skin Contact

Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

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.
None known.

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 and chlorinated compounds and sulfur and sulfur 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, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

Environmental precautions

Observe directions on label and instructions for use. See Also Section 15.

Methods and material for containment and cleaning up

Observe directions on label and instructions for use. See Also Section 15.

Reference to other sections

Observe directions on label and instructions for use. See Also Section 15.

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Observe directions on label and instructions for use. See Also Section 15.

Conditions for safe storage, including any incompatibilities

- Storage temperature
- Incompatible materials

Store at room temperature. Do not allow material to freeze.
Strong oxidising agents. Substances that react with water.

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 ⁽¹⁾ | ----- | ----- | ⁽¹⁾ Inhalable |

Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure coarse spray only. Observe directions on label and instructions for use. See Also Section 15.

Personal protection equipment

Eye/face protection

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



Skin protection (Hand protection/ Other)

Gloves. Observe directions on label and instructions for use. See Also Section 15.



Respiratory protection

Observe directions on label and instructions for use. See Also Section 15.



Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses. Observe directions on label and instructions for use. See Also Section 15.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|-----------------|
| Appearance | Liquid |
| Colour. | Off-white |
| Odour | Mild |
| Odour Threshold (ppm) | Not available. |
| pH (Value) | 3.32 (1% soln.) |
| Melting Point (°C) / Freezing Point (°C) | Not available. |
| Boiling point/boiling range (°C): | Not available. |
| Flash Point (°C) | >100 |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Explosive Limit Ranges | Not available. |
| Vapour pressure (Pascal) | 2266 |
| Vapour Density (Air=1) | Not available. |
| Density (g/ml) | 1.07 |
| Solubility (Water) | Dispersible |
| 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. |
| Explosive properties | Not explosive. |

Oxidising properties

Not oxidising.

Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No hazardous reactions known if used for its intended purpose. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None anticipated. |
| Conditions to avoid | Incompatible materials |
| Incompatible materials | Strong oxidising agents. Substances that react with water. |
| Hazardous decomposition product(s) | Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds and sulfur and sulfur compounds. |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Substances

Not applicable

Mixtures

| | |
|-----------------------------------|---|
| Acute toxicity | Oral: LD50 >2000 mg/kg-bw (rat) Dermal: LD50 >2000 mg/kg-bw (rat) Inhalation: LC50 >5.12 mg/L (rat) |
| Skin corrosion/irritation | Causes mild skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not available. |
| Carcinogenicity | Not available. |
| Reproductive toxicity | Not available. |
| STOT - single exposure | Not available. |
| STOT - repeated exposure | Not available. |
| Aspiration hazard | Not available. |

Substances in preparations / mixtures:

Metolachlor (CAS No. 51218-45-2):

| | |
|-------------------------------|--|
| Acute toxicity | Oral: LD50 >2000 mg/kg -bw Dermal: LD50 >5000 mg/kg -bw Inhalation: LC50 >2.08 mg/l (Aerosol), 4-hr. rat |
| Irritation/Corrosivity | Causes skin irritation. Causes serious eye irritation. |
| Sensitization | May cause an allergic skin reaction. |
| Repeated dose toxicity | No data |
| Carcinogenicity | No data |

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

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

Atrazine (CAS No. 1912-24-9):

| | |
|-----------------------|--|
| Acute toxicity | Oral LD50: 714 - >1869 mg/kg-bw (rat) Dermal LD50: >2000 mg/kg-bw (rat) Inhalation LC50: > 5.8 mg/L (4 hr) (rat) |
|-----------------------|--|

Irritation/Corrosivity

Sensitization

Repeated dose toxicity

Unlikely to cause skin irritation. Unlikely to cause eye irritation.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure: Oral, Heart, Blood

Carcinogenicity

Not to be expected.

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

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected.

Mesotrione (CAS No. 104206-82-8):

Acute toxicity

Oral: LD50 >2000 mg/kg -bw

Dermal: LD50 >5000 mg/kg -bw

Inhalation: LC50 >2.08 mg/l (Aerosol), 4-hr. rat

Irritation/Corrosivity

Unlikely to cause eye irritation. Unlikely to cause skin irritation.

Sensitization

It is not a skin sensitizer in animal tests.

Repeated dose toxicity

Not to be expected. NOAEL = 71 mg/kg/day (mice)

Carcinogenicity

Not to be expected.

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

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected. NOAEL = 71 mg/kg/day (mice)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Metolachlor (CAS No. 51218-45-2):

Short term

EC50 (96 hour): 3.9 - 10 mg/L (Fish)

EC50 (48 hour): 25.1 mg/L (Daphnia magna)

EC50 (72 hour): <1 mg/L (aquatic plants), estimated.

Long Term

NOEC (1 - 4 days): 0.038 mg/L (Duckweed)

Atrazine (CAS No. 1912-24-9):

Short term

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.

Mesotrione (CAS No. 104206-82-8):

Short term

LC50 (96 hour): >120 mg/L (fish)

EC50 (48 hour): 840 mg/L (*Daphnia magna*)

EC50 (7 days): 0.02 mg/L (Duckweed)

Long Term

EC10 (7 days): 0.0068 mg/L (Duckweed)

Persistence and degradability

Part of the components are poorly biodegradable.

Bioaccumulative potential

Not determined.

Mobility in soil

Not determined.

Results of PBT and vPvB assessment

Not classified as PBT.

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. Observe directions on label and instructions for use. See Also Section 15.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

| | Land transport (U.S. DOT) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|------------------------------|------------------------------|---|------------------------------|
| UN number | Not Regulated | UN 3082 | UN 3082 |
| Proper Shipping Name | | Environmentally hazardous substance, liquid, n.o.s. (Metolachlor, Atrazine, & Mesotrione) | |
| 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

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.

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

This is a pesticide product registered with 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: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE):

All Mixers, Loaders, Applicators, Flaggers, and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves made of: barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, natural rubber >14 mils, polyethylene, polyvinyl chloride (PVC) >14 mils or Viton >14 mils
- Chemical-resistant footwear plus socks.
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.
- Chemical-resistant headgear for overhead exposure.

Follow 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls:

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)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards:

This product is toxic to aquatic invertebrates. 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 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 wash water or rinsate.

Ground Water Advisory

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) 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 ground water.

Metolachlor is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

This product may contaminate surface water through spray drift. This product has a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

The pesticide label also includes other important information, including directions for use.

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

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

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

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

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 |
|---------------|-----------|--------------|-----------------------|
| Atrazine | 1912-24-9 | ~ 19 | Developmental, female |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 14

Date of preparation: December 10, 2021

Revised: July 19, 2024

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

Hazard Statement(s)

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H373: May cause damage to organs through prolonged or repeated exposure.



Stalwart[®] 3W

- H400: Very toxic to aquatic life.
- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

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