

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture
Trade Names Stalwart® 2W
CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-63

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

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

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)

Hazard Statement(s)

Causes serious eye irritation.

May cause an allergic skin reaction.

Precautionary Statement(s)

Avoid breathing 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 lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get

medical advice/attention.

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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.

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	~ 37	51218-45-2	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Mesotrione	~ 4	104206-82-8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Proprietary dispersing agent	3.16	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

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-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media 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

Do not get in eyes, on skin, or on clothing. Wear protective emergency procedures

gloves/protective clothing/eye protection/face protection. Do not get in eyes, on skin, or on clothing. Wear protective emergency procedures

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

Specific end use(s) Herbicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
None						

Exposure controls

Appropriate engineering controls Do NOT aerosolize or atomize to produce inhalable-size particles.

Use low-pressure course spray only. Observe directions on label and

instructions for use. See Also Section 15.

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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.

Liquid Off-white

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 Colour.

Odour Slight sweet
Odour Threshold (ppm) Not available.
pH (Value) 3.35 (1% soln.)

pH (Value)

3.35 (1% soln.

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Not available.

Not available.

Flash Point (°C) >100
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Explosive Limit Ranges Not available.

Vacquer processes (Pascal) 2366

Vapour pressure (Pascal)

Vapour Density (Air=1)

Density (g/ml)

2266

Not available.
1.06

Density (g/ml) 1.06
Solubility (Water) Dispersible
Solubility (Other) Not available.
Partition Coefficient (n-Octanol/water) Not available.
Auto Ignition Point (°C) Not available.

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Not available.

> 150 @ 25 °C

Not explosive.

Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Chemical stability

Other information

Possibility of hazardous reactions

Conditions to avoid

No hazardous reactions known if used for its intended purpose.

Stable under normal conditions.

Not available.

None anticipated.
Incompatible materials

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Incompatible materials

Hazardous decomposition product(s)

Strong oxidising agents. Substances that react with water.

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 mg/L (rat)

Skin corrosion/irritation Unlikely to cause skin irritation.
Serious eye damage/irritation Causes serious eye irritation.
Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

Not available.

Not available.

Not available.

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

Carcinogenicity

No data

No data

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 sensitiser 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)

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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)

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 potentialNot determined.Mobility in soilNot determined.Results of PBT and vPvB assessmentNot 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 classified as dangerous	UN 3082	UN 3082		
Proper Shipping Name	for transport. *	Environmentally hazardous substance, liquid, n.o.s. (Metolachlor & 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.

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^{*} For bulk shipments in U.S., can be shipped as UN3082, Environmentally hazardous substance, liquid, n.o.s. (Metolachlor & Mesotrione), 9, PG III

SIPCAM AGRO

Stalwart® 2W

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. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear. Remove and wash contaminated clothing before reuse. 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, and other handlers must wear:

- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant gloves (e.g., 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)
- Shoes and socks

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.

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)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards:

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 water when disposing of equipment wash water or rinsate

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
None			

SECTION 16: OTHER INFORMATION

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

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SIPCAM AGRO

Stalwart® 2W

Date of preparation: December 10, 2021

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

Hazard Statement(s)

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- 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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