

Stalwart Herbicide

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture

Trade Names Stalwart Herbicide

CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-24

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 350

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)

Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1

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)



WARNING

Hazard Statement(s)

Signal Word(s)

Combustible liquid.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Precautionary Statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray

Contaminated work clothing should not be allowed out of the

workplace.

Wear protective gloves.

IF IN EYES: Rinse cautiously with water for several minutes.

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Other hazards

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Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash

contaminated clothing before reuse.

IF INHALED: Get medical advice/attention if you feel unwell. IF SWALLOWED: Get medical advice/attention if you feel unwell.

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)
Metolachlor	83 - 89	51218-45-2	Flam. Liq. 4; H227 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Proprietary emulsifier	11 - 17	Trade Secret	Skin Irrit. 2; H315 Eye Irrit. 2; H319

Additional Information - The exact composition is being withheld as trade secret in accordance with OSHA 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Not normally required. Get medical advice/attention if you feel unwell.

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. If eye irritation persists, get

medical advice/attention.

Ingestion Not normally required. Get medical advice/attention if you feel unwell.

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. Do not use water jet.

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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. 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 mist/vapours/spray. Wear protective gloves/protective clothing/eye

protection/face protection.

Environmental precautionsAvoid 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. Avoid release to the environment.

Reference to other sections
Additional Information

None None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not get in

eyes. Avoid contact with skin. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-

ventilated area. In case of inadequate ventilation wear respiratory protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

-Incompatible materials Strong oxidizing agents. Strong acids / bases.

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.

Personal protection equipment

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



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Skin protection (Hand protection/ Other)

Gloves (PVC, Neoprene, or Natural rubber).



Respiratory protection

Not normally required.



Solubility (Water)

Thermal hazards Not normally required.

Environmental Exposure ControlsDo not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid
Color. Pale brown
Odor Aromatic
Odor Threshold (ppm) Not available

pH (Value) 4.94 Melting Point/Freezing Point C) Not available Boiling point/boiling range (°C) Not available 83 (181.4 °F) Flash Point (°C) **Evaporation Rate** Not available Flammability (solid, gas) Not applicable **Explosive Limit Ranges** Not applicable Vapour Pressure (mmHg) Not applicable Vapour Density (Air=1) Not available Not available Density (g/ml) Specific Gravity 1.097 (9.15 lb/gal)

Solubility (Other) miscible in various solvents

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Not available

34.12 @ 40 °C

Not explosive

Oxidizing properties Combustible; Incompatible with strong oxidizing agents

Other information Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Hydrolysed by strong alkalis and strong mineral acids.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Humidity, high temperatures

Incompatible materials Strong oxidizing agents. Strong acids / bases.

Hazardous decomposition product(s)

Combustion or thermal decomposition will evolve toxic and irritant

vapours: acrid smoke. Forms oxides of carbon and nitrogen, also

chlorine and chlorinated compounds.

488 mg/l @ 25 °C

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SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

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 No data

Carcinogenicity

NTP	*IARC	ACGIH	OSHA	*NIOSH
No.	No.	No.	No.	No.

Mutagenicity Not to be expected Reproductive toxicity Not to be expected

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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.

NOEC = 0.78 ppm (Fish) Long Term

Persistence and degradability Not available **Bioaccumulative potential** Not available Mobility in soil Not available Results of PBT and vPvB assessment Not available 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 (U.S. DOT) *	Sea transport (IMDG)	Air transport (ICAO/IATA)	
UN number	NA 1993	UN 3082	UN 3082	
Proper Shipping Name Combustible liquid, n.c (Metolachlor)		Environmentally hazardous substance, liquid, n.o.s. (Metolachlor)		
Transport hazard class(es)	Comb. Liq.	9	9	
Packing group	III	III	III	
Hazard label(s)	Comb. Liq.	Marine Pollutant	Marine Pollutant	
Environmental hazards	Yes	Yes	Yes	
Special precautions for user None Assigned		None Assigned	None Assigned	

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

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^{*} Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

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SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: This product is regulated under FIFRA as a pesticide and, therefore, is not subject to TSCA. It is a violation of Federal Law to use this product for purposes other than a pesticide.

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:

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing qum, or using tobacco.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate or viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure, and
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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.

User Safety Recommendations

Users should:

- Wash hands after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet
- · Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4)). When using the closed system, the PPE requirements for mixers and loaders may be reduced or modified as specified in the WPS.

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

For terrestrial uses, do not apply directly to water, or 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 waters or rinsate.

Groundwater Advisory

This chemical is known to leach through soil into groundwater 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 groundwater contamination.

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Surface Water Advisory

Metolachlor can contaminate surface water through ground spray drift. Under some conditions, metolachlor may also have 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 over-laying extremely shallow groundwater, 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 over-laying tile drainage systems that drain to surface water.

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.

Date of preparation: April 14, 2020

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

Hazard Statement(s)

- H227: Combustible liquid.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Sipcam Agro USA, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Sipcam Agro USA, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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