

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 20-Feb-2023 Revision Date 30-Apr-2024 Revision Number 2

#### 1. Identification

**Product identifier** 

Product Name GCS S-Metolachlor 82.4% EC

Other means of identification

**EPA Reg. No.** 94730-37

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use Use only as directed on product label

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Generic Crop Science, LLC 1887 Whitney Mesa Drive #9740 Henderson, NV 89014-2069 1-844-200-FARM (3276)

**E-mail** regulatory@farmersbusinessnetwork.com

Emergency telephone number For Emergency Medical Assistance (Human or Animal) contact Rocky Mountain

Poison Control at 866-767-5040.

For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) contact CHEMTREC at 800-424-9300 (North America) or 703-527-3887 (International).

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1B

#### Hazards not otherwise classified (HNOC)

Not applicable.

#### Label elements

#### **Danger**

#### **Hazard statements**

Causes serious eye irritation.

May cause cancer.



#### **Precautionary Statements - Prevention**

Obtain special instructions before use.

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

Wear protective gloves/clothing and eye/face protection.

Wash face, hands and any exposed skin thoroughly after handling.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

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.

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other information

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes mild skin irritation. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
s-Metolachlor	87392-12-9	80 - 90	*
Poly(oxy-1,2-ethanediyl),	104376-75-2	5 - 10	*
.alphaphenylomegahydroxy-, styrenated			
Benoxacor	98730-04-2	1 - 5	*
Hydrocarbons, C10-13, aromatics; < 1%	64742-94-5	1 - 5	*
naphthalene			
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	1 - 5	*
Benzenesulfonic acid, mono-C11- 13-branched alkyl	68953-96-8	1 - 5	*
derivs., calcium salts			
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.5 - < 1	*
Naphthalene	91-20-3	0.1 - 0.5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

#### Description of first aid measures

General advice

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the

doctor in attendance.

**Inhalation** Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water. Get medical attention if symptoms occur.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may

cause redness and irritation.

Indication of any immediate medical attention and special treatment needed

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media**None known based on information supplied.

Specific hazards arising from the

chemical

None known based on information supplied.

Hazardous combustion products Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers. Clean contaminated surface thoroughly.

GCS S-Metolachlor 82.4% EC Revision Date: 30-Apr-2024

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls/personal protection

#### Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>
		(vacated) TWA: 50 mg/m <sup>3</sup>	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m <sup>3</sup>
		(vacated) STEL: 75 mg/m <sup>3</sup>	-

#### Biological occupational exposure limits

Chemical name	ACGIH
Naphthalene	- (1-Naphthol with hydrolysis plus 2-Naphthol with
91-20-3	hydrolysis) - end of shift

#### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection**Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear

suitable gloves and eye/face protection.

GCS S-Metolachlor 82.4% EC Revision Date: 30-Apr-2024

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid
Color Tan
Odor Pungent

Odor threshold No data available

PropertyValuesRemarks • MethodpH6.66solution (1 %)

pH (as aqueous solution)No data availableMelting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data available

Flash point 143.1 °C / 289.6 °F

Evaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive limits
Lower flammability or explosive limits
No data available
Vapor pressure
No data available
Vapor density
No data available
Relative density
No data available
Water solubility
No data available

Relative density
No data available
Water solubility
No data available
Solubility(ies)
No data available
Partition coefficient
No data available
Autoignition temperature
No data available
Decomposition temperature
No data available
Kinematic viscosity
No data available

**Dynamic viscosity** 151.42 mPa s @ 20 °C

Other information

Explosive properties

Oxidizing properties

No information available
VOC content

No information available

Liquid Density 1.1192 g/mL

Bulk density No information available

# 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.

# 11. Toxicological information

(M)SDS Number UL-GCS-203

GCS S-Metolachlor 82.4% EC Revision Date: 30-Apr-2024

#### Information on likely routes of exposure

**Product Information** 

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Eye contact Causes serious eye irritation. May cause redness, itching, and pain.

**Skin contact**Causes mild skin irritation. May be harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

**Acute toxicity** 

**Numerical measures of toxicity** 

 Oral LD50
 > 2,000 mg/kg (rat)
 OECD 423

 Dermal LD50
 > 2,000 mg/kg (rat)
 OECD 402

Inhalation LC50 > 5.06 mg/l (rat, 4 hr) (dust/mist) OECD 403

**Component Information** 

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
s-Metolachlor 87392-12-9	= 2267 mg/kg (Rat)	-	-
Benoxacor 98730-04-2	> 5 g/kg (Rat)	> 2010 mg/kg ( Rabbit )	> 2 g/m³ (Rat) 4 h
Hydrocarbons , C10-13, aromatics ; < 1% naphthalene 64742-94-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4688 mg/m³ (Vapor) 4h
Benzenesulfonic acid, mono-C11- 13-branched alkyl derivs., calcium salts 68953-96-8	-	1000 - 1600 mg/kg (Rat)	-
Naphthalene 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg ( Rabbit )	> 0.4 mg/L (Rat)4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** On basis of test data: Causes mild skin irritation.

**Serious eye damage/eye irritation** On basis of test data: Causes serious eye irritation.

**Respiratory or skin sensitization** On basis of test data: Did not cause allergic skin reactions when tested in guinea pigs.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

#### ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3	А3	Group 2B	Reasonably Anticipated	Х

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

No information available.

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Other adverse effects

No information available.

# 12. Ecological information

Ecotoxicity

Interactive effects

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Hydrocarbons , C10-13,	=	LC50: =19mg/L (96h,	-	EC50: =0.95mg/L (48h,
aromatics; < 1% naphthalene		Pimephales promelas)		Daphnia magna)
64742-94-5		LC50: =2.34mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =1740mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =45mg/L (96h,		
		Pimephales promelas)		
		LC50: =41mg/L (96h,		
		Pimephales promelas)		
Solvent Naphtha (Petroleum),	-	LC50: =19mg/L (96h,	-	EC50: =0.95mg/L (48h,
Heavy Aromatic		Pimephales promelas)		Daphnia magna)
64742-94-5		LC50: =2.34mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =1740mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =45mg/L (96h,		
		Pimephales promelas)		
		LC50: =41mg/L (96h,		
		Pimephales promelas)		
Naphthalene	-	LC50: 5.74 - 6.44mg/L	-	LC50: =2.16mg/L (48h,
91-20-3		(96h, Pimephales		Daphnia magna)
		promelas)		EC50: =1.96mg/L (48h,
		LC50: =1.6mg/L (96h,		Daphnia magna)

Oncorhynchus mykiss)	EC50: 1.09 - 3.4mg/L
LC50: 0.91 - 2.82mg/L	(48h, Daphnia magna)
(96h, Oncorhynchus	
mykiss)	
LC50: =1.99mg/L (96h,	
Pimephales promelas)	
LC50: =31.0265mg/L	
(96h, Lepomis	
macrochirus)	

Persistence and degradability

No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Benoxacor 98730-04-2	2.6
Hydrocarbons , C10-13, aromatics ; < 1% naphthalene 64742-94-5	6.5
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	6.5
Benzenesulfonic acid, mono-C11- 13-branched alkyl derivs., calcium salts 68953-96-8	4.595
Naphthalene 91-20-3	3.4

Other adverse effects

No information available.

## 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging

Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

# 14. Transport information

DOT Not regulated

IATA Not regulated in quantities less than 5 liter per individual container.

ID number UN3082

Proper shipping name Environmentally hazardous substance, liquid, N.O.S. (S-Metolachlor)

Hazard Class(es) **Packing group** 

**Hazard Label** Class 9, Environmentally Hazardous

Not regulated in quantities less than 5 liter per individual container. **IMDG** 

ID number UN3082

Proper shipping name Environmentally hazardous substance, liquid, N.O.S. (S-Metolachlor)

Hazard Class(es) 9
Packing group III

Hazard Label Class 9, Environmentally Hazardous

Marine Pollutant/ YES

**Environmentally Hazardous Substance** 

# 15. Regulatory information

#### **International Inventories**

Contact supplier for inventory compliance status

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Naphthalene - 91-20-3	0.1

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene 91-20-3	100 lb	Х	Х	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Naphthalene 91-20-3	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name California Proposition 65		
Naphthalene - 91-20-3	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Naphthalene 91-20-3	Х	X	X
Pseudocumene 95-63-6	X	X	X

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 94730-37

## 16. Other information

NFPA<br/>HMISHealth hazards2Flammability1Instability0Special hazards-Chronic Hazard Star Legend\*= Chronic Health Hazard\*= Chronic Health Hazard\*= Chronic Health Hazard\*= Chronic Health Hazard\*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Issuing Date 20-Feb-2023

Revision Date 30-Apr-2024

**Revision Note** SDS sections updated: 1 & 14.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Date: 30-Apr-2024

**End of Safety Data Sheet**