

# SAFETY DATA SHEET



**Date Issued :** 2/19/2018  
**SDS No :** VISOR S-MOC HERBICIDE  
**Date Revised :** 3/5/2018  
**Revision No :** 1

## VISOR S-MOC HERBICIDE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** VISOR S-MOC HERBICIDE

**CHEMICAL FAMILY:** Herbicide

**DISTRIBUTOR**

Innvictis Crop Care, LLC  
 1880 Fall River Drive  
 Suite 100  
 Loveland, CO 80538

**24 HR. EMERGENCY TELEPHONE NUMBERS**

24-Hour Emergency Assistance Call: 1-800-222-1222  
 Chemical Emergency Call CHEMTREC: 1-800-424-9300

**EPA REG. NO.:** 91234-52-89391

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS**

**Health:**

Acute Toxicity (Oral), Category 5  
 Acute Toxicity (Dermal), Category 5  
 Acute Toxicity (Inhalation), Category 3  
 Eye Irritation, Category 2A  
 Skin Irritation, Category 3  
 Skin Sensitization, Category 1B  
 Target Organ Toxicity (Repeated exposure), Category 2  
 Carcinogenicity, Category 2

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

**GHS LABEL**



Skull and  
crossbones



Environment



Health  
hazard



Exclamation  
mark

**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS**

H303: May be harmful if swallowed.  
 H313: May be harmful in contact with skin.  
 H316: Causes mild skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H331: Toxic if inhaled.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to liver through prolonged or repeated exposure.

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H400: Very toxic to aquatic life.

**PRECAUTIONARY STATEMENTS****General:**

- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.
- P103: Read label before use.

**Prevention:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe fumes, gas, mist, vapours or spray.
- P264: Wash hands, face and other affected areas thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P311: Call a POISON CENTER or doctor/physician.
- P321: Specific treatment see Section 4, First Aid Measures, on this SDS.
- P363: Wash contaminated clothing before reuse.
- P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P391: Collect spillage.

**Storage:**

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.

**Disposal:**

- P501: Dispose of contents/container to Local, State and Federal Regulations.

**POTENTIAL HEALTH EFFECTS**

- EYES:** Causes serious eye Irritation.
- SKIN:** Causes mild skin irritation.
- INGESTION:** May be harmful if swallowed.
- INHALATION:** Toxic if inhaled.

**CARCINOGENICITY:****Naphthalene (<1%)**

Test results reported for the final product take into account any acute hazards related to the naphthalene in the formulation. Chronic overexposure to naphthalene can affect the liver, kidneys, respiratory tract and blood.

Carcinogen Status

NTP: Anticipated Carcinogen

IARC: Group 2B Possible Human Carcinogen

**SENSITIZATION:** This product is considered to be a skin sensitizer.

**COMMENTS HEALTH:** Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

## VISOR S-MOC HERBICIDE

Chemical Name	Wt.%	CAS
s-Metolachlor	83.7	87392-12-9
Other Ingredients	16.3	Mixture
Naphthalene	<= 1	91-20-3

**4. FIRST AID MEASURES**

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**ADDITIONAL INFORMATION:** Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **NPCC 1-800-222-1222** or call **CHEMTREC 1-800-424-9300**.

**5. FIRE FIGHTING MEASURES**

**GENERAL HAZARD:** Toxic fumes may be emitted in a fire situation.

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

**EXPLOSION HAZARDS:** No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

**FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Do not contaminate any body of water.

**LAND SPILL:** Avoid runoff onto any adjacent land.

**SPECIAL PROTECTIVE EQUIPMENT:** Always wear proper protective equipment when handling this product.

**7. HANDLING AND STORAGE**

**HANDLING:** Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing 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.

**STORAGE:** Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source and away from children and animals. Mix

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well before using. Keep tightly closed. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)						
			EXPOSURE LIMITS			
			OSHA PEL		ACGIH TLV	
Chemical Name			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Naphthalene	TWA		10	50	10	52
	STEL				15	79

**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.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

**SKIN:** Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

**RESPIRATORY:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Wear a NIOSH/MSHA approved dust mask or filter when vapors are expected to be generated above the permissible limit.

**PROTECTIVE CLOTHING:** Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. 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.

**OTHER USE PRECAUTIONS:** Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Moderately sweet

**APPEARANCE:** Liquid

**COLOR:** Transparent yellow

**pH:** 4.52

**PERCENT VOLATILE:** Not Established

**FLASH POINT AND METHOD:** (210.2°F)

**FLAMMABLE LIMITS:** Not Established to Not Established

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Established

**FREEZING POINT:** Not Established

**MELTING POINT:** Not Established

**POUR POINT:** Not Established

**THERMAL DECOMPOSITION:** Not Established

**SOLUBILITY IN WATER:** Not Established

## VISOR S-MOC HERBICIDE

**EVAPORATION RATE:** Not Established

**DENSITY:** 9.09 lbs./gal.

**SPECIFIC GRAVITY:** 1.09 g/cm<sup>3</sup> at 25 °C Hydrometer

**VISCOSITY #1:** 54.1 Centipoise at 25 °C

**MOLECULAR WEIGHT:** Not Established

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBLE MATERIALS:** None known.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg

**Notes:** May be harmful in contact with skin.

**ORAL LD<sub>50</sub>:** 3425 mg/kg

**Notes:** May be harmful if swallowed.

**INHALATION LC<sub>50</sub>:** > 2.61 mg/L

**Notes:** Toxic if inhaled.

**EYE EFFECTS:** Causes serious eye irritation.

**SKIN EFFECTS:** Causes mild skin irritation.

### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Naphthalene	2	2B

**IARC:** Group 2B Possible Human Carcinogen

**NTP:** Anticipated Carcinogen

**Notes:**

Naphthalene (<1%)

Test results reported for this product take into account any acute hazards related to the naphthalene in the formulation.

**SENSITIZATION:** This product is considered to be a skin sensitizer.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This product contains ingredients known to be toxic to the environment as well as fish, aquatic invertebrates, and aquatic plant life. This product is not labeled for use in aquatic sites. 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.

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** ~ 1 mg/L (Fish) (S-Metolachlor, technical material)

### CHEMICAL FATE INFORMATION:

s-Metolachlor:

The information presented here is for the active ingredient s-Metolachlor.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water (after 24 h).

## 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHOD:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated by DOT

**AIR (ICAO/IATA)****SHIPPING NAME:**

Environmentally hazardous substance, Liquid, N.O.S., UN 3082, Class 9, PG III, ERG 171 (S-Metolachlor)

**UN/NA NUMBER:** 3082

**PRIMARY HAZARD CLASS/DIVISION:** 9

**PACKING GROUP:** III

**ERG:** 171

**VESSEL (IMO/IMDG)****SHIPPING NAME:**

Environmentally hazardous substance, Liquid, N.O.S., UN 3082, Class 9, PG III, ERG 171 (S-Metolachlor)

**UN/NA NUMBER:** 3082

**PRIMARY HAZARD CLASS/DIVISION:** 9

**PACKING GROUP:** III

**MARINE POLLUTANT #1:** S-Metolachlor

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** Acute, Chronic

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Naphthalene (<1%) (CAS No. 91-20-3)

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Naphthalene (CAS No. 91-20-3) RQ = 100 lbs

Chemical Name	Wt.%	CERCLA RQ
Naphthalene	<= 1	100

**REPORTABLE SPILL QUANTITY:** >1,700 gal.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Naphthalene	91-20-3

**CALIFORNIA PROPOSITION 65**

Chemical Name	Wt.%	Listed
Naphthalene	<= 1	Cancer

**CARCINOGEN:** Naphthalene is considered to be a possible human carcinogen.

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):****Labeling Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information

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required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals****CAUTION**

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin, or clothing.

**GENERAL COMMENTS:****FIFRA Labeling Information:**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

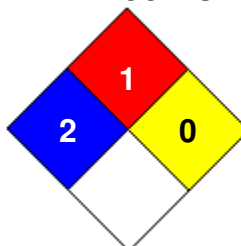
**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals****CAUTION**

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. May cause skin sensitization reactions in certain individuals.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New Product

**REVISION SUMMARY:** This SDS replaces the 2/21/2018 SDS. Revised: **Section 9:** DENSITY. **Section 14:** AIR (ICAO/IATA) ( PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER, ERG ), VESSEL (IMO/IMDG) ( MARINE POLLUTANT #1, PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER ).

**NFPA CODES****GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY**

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