

# SAFETY DATA SHEET



Date Issued : 11/20/2019

SDS No : Cent1

## CENTAVO

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CENTAVO

**PRODUCT DESCRIPTION:** 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.:** 89168-83-89391

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS**

**Health:**

Acute Toxicity (Dermal), Category 5  
Skin Irritation, Category 3  
Eye Irritation, Category 2A  
Acute Toxicity (Oral), Category 5  
Acute Toxicity (Inhalation), Category 5

**GHS LABEL**



Exclamation  
mark

**SIGNAL WORD:** WARNING

**HAZARD STATEMENTS**

H303: May be harmful if swallowed.  
H313: May be harmful in contact with skin.  
H316: Causes mild skin irritation.  
H319: Causes serious eye irritation.  
H333: May be harmful if inhaled.

**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:**

P264: Wash hands, face and other affected areas thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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**Response:**

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313: If skin irritation 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.

**Storage:**

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

**Disposal:**

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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Mesotrione	16.23 - 18.8	104206-82-8
Clopyralid monoethanolamine salt	9.21 - 10.19	57754-85-5
Other Ingredients	70.22 - 74.57	Mixture

**4. FIRST AID MEASURES**

**EYES:** Check for and remove contact lenses, if present. Immediately flush eyes with water for at least 15 minutes, holding eyelids open. Do not allow affected individual to rub eyes. Seek immediate medical attention.

**SKIN:** Immediately wash skin with plenty of water while removing contaminated clothing. Always wash clothing according to manufacturer's instructions prior to reuse.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move individual to fresh air. If individual is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Dry Chemical, CO<sub>2</sub>, Water Spray, or Foam. For large fires DO NOT use straight streams.

**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. 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:** Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a container suitable for chemical waste. Check local, state, and federal regulations for proper disposal and follow those regulations.

**LARGE SPILL:** Dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Scrub the contaminated area with a detergent or soap solution. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

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**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. Avoid contact with eyes and contact with skin. 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:** Store above 32°F in original container only. If product solidifies, return to room temperature and agitate to reconstitute. Keep container closed when not in use. Do not store near food or feed.**STORAGE TEMPERATURE:** Store above 32°F**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****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****PHYSICAL STATE:** Liquid**ODOR:** Characteristic**ODOR THRESHOLD:** Not Established**APPEARANCE:** Opaque, viscous liquid**COLOR:** Off-white**pH:** 3.0 to 4.0**FLASH POINT AND METHOD:** > (200 °F)**FLAMMABLE LIMITS:** Not Established**VAPOR PRESSURE:** Not Determined**VAPOR DENSITY:** Not Determined**BOILING POINT:** Not Determined**FREEZING POINT:** ~32 F.**MELTING POINT:** Not Determined

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**POUR POINT:** > 32 F**THERMAL DECOMPOSITION:** Not Determined**SOLUBILITY IN WATER:** Soluble**EVAPORATION RATE:** Not Determined**DENSITY:** ~ 9.44 lbs/gal ~**SPECIFIC GRAVITY:** ~ 1.132 g/mL**VISCOSITY #1:** ~ to 700 Centistokes at 20°C**VISCOSITY #2:** ~ to 340 Centistokes at 40°C**MOLECULAR WEIGHT:** Not Determined**OXIDIZING PROPERTIES:** Incompatible with Potassium Permanganate Solution**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**INCOMPATIBLE MATERIALS:** Not yet Determined**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD<sub>50</sub>:** > 2000 mg/kg**ORAL LD<sub>50</sub>:** < 2000 mg/kg**INHALATION LC<sub>50</sub>:** > 2.10 mg/L (Rat)(4-Hour)**EYE EFFECTS:** Causes moderate eye irritation.**SKIN EFFECTS:** May cause skin irritation.**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
Mesotrione	Not Listed	Not Listed	Not Listed

**Notes:** Not listed in OSHA, NTP, IARC or ACGIH**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** 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 water or rinsate.

**Ground Water Advisory** Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

**Surface Water Advisory** This product may contaminate water through drift or spray in wind and impact surface water quality due to runoff of rain water. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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.

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**13. DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:** Improper disposal of excess waste is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your Local Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**EMPTY CONTAINER:** 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 for ground transportation by US D.O.T.

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

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

**313 REPORTABLE INGREDIENTS:** Not Listed

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

**CERCLA REGULATORY:** Not Applicable

**EPA**

**EPA RQ INGREDIENT:** Not Applicable

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All components of this product are listed under the regulation of the Toxic Substance Control Act or are exempt from TSCA and are subject to FIFRA.

**CALIFORNIA PROPOSITION 65:** This product does not contain ingredients known to be on the California Proposition 65 list.

**GENERAL COMMENTS:****Precautionary Statements****Hazards to Humans and Domestic Animals****CAUTION**

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks and shoes and chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New Product

**PREPARED BY:** Lighthouse Product Services, LLC

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