

Safety Data Sheet
according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

1 Identification

· **Product identifier**

· **Trade name:** SANDEA® WG HERBICIDE

· **Article number:** Canada_English1

· **CAS Number:**

Halosulfuron present as methyl ester (72.60%) : 100784-20-1

Registration number PCP Registration No.: 31209

Group 2 Herbicide

· **Application of the substance / the mixture** Agricultural herbicide

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Canyon Group L.L.C

C/O Gowan Company, L.L.C.

P.O. Box 5569

Yuma (AZ) 85366-5569

Canada: (800) 960-4318

· **Information department:** sds@gowanco.com

· **Emergency telephone number:**

Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300

Outside the U.S. & Canada: +011 (703) 527-3887

For medical emergency (ProPharma Group®): (888) 478-0798

2 Hazard identification

· **Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.



GHS07

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07



GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Halosulfuron-methyl

(Contd. on page 2)

CA/EN

Safety Data Sheet


according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 1)

- **Hazard statements**
 - H302 Harmful if swallowed.
 - H360 May damage fertility or the unborn child.
 - **Precautionary statements**
 - P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P264 Wash thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
 - P330 Rinse mouth.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Hazard description:** Harmful if swallowed. May irritate eyes. Avoid contact with eyes.
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
- 

Health = 2

Fire = 0

Reactivity = 0
- HAZARD INDEX:**
- 4 Severe Hazard
 - 3 Serious Hazard
 - 2 Moderate Hazard
 - 1 Slight Hazard
 - 0 Minimal Hazard
- **Other hazards**
 - PBT: Not applicable.
 - vPvB: Not applicable.

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 100784-20-1	Halosulfuron-methyl	 Reproductive Toxicity - Category 1B, H360	72.6% w/w
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information:**
 - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
 - Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
 - Call poison control center or doctor for further treatment advice.

(Contd. on page 3)

CA/EN

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 2)

- **After skin contact:**
 - 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.
- **After eye contact:**
 - Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.
 - Call a poison control center or doctor for treatment advice.
- **After swallowing:**
 - Call a poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give anything by mouth to an unconscious person.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
 - **Protective equipment:**
Wear self-contained respiratory protective device.
Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Sweep up spill, scoop or vacuum and remove. Flush residual spill area with water. Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal.
Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water. Refer to Section 13 for disposal information and Section 15 for reportable quantity information.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

CA/EN

(Contd. on page 4)

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 3)

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Avoid contact with eyes or clothing. Wash hands 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. 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 washwaters.

- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store under cool, dry conditions (below 48.9 °C or 120°F). Do not store under moist conditions.

- **Information about storage in one common storage facility:** *Store away from foodstuffs.*

- **Further information about storage conditions:** *Keep receptacle tightly sealed.*

- **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** *No further data; see section 7.*

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**

When handlers use closed systems or enclosed cabs 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.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- **Breathing equipment:** *Not required.*

- **Protection of hands:**



Protective gloves

- **Material of gloves** *Chemical-resistant made of any waterproof material*

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** *Not required.*

- **Body protection:**

Protective work clothing

Long-sleeved shirt and long pants or coveralls

Chemical-resistant gloves made of any waterproof material

Shoes plus socks

CA/EN

(Contd. on page 5)

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- Form: Granulate
- Color: Beige
- Odor: Slightly Vanilla
- Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): 6.6

· Change in condition

- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Decomposition temperature: Not determined.

· Ignition temperature: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

· Vapor pressure: Not applicable.

· Density at 20 °C (68 °F): 0.656 g/cm³ (5.47432 lbs/gal)

- Relative density: Not determined.
- Vapor density: Not applicable.
- Evaporation rate: Not applicable.

· Solubility in / Miscibility with

· Water: Dispersible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

- Dynamic: Not applicable.
- Kinematic: Not applicable.

· Other information: No further relevant information available.

10 Stability and reactivity

· Reactivity: No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided:

This product should be stable for at least two years under normal conditions of warehouse storage. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid

Store under cool, dry conditions (below 48.9 °C or 120°F). Do not store under moist conditions.

· Incompatible materials: No further relevant information available.

(Contd. on page 6)

CA/EN

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 5)

· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

Oral	LD50	1,287 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/l (rat)

· **Primary irritant effect:**

- **on the skin:** Slightly irritating
- **on the eye:** Moderately Irritating

· **Sensitization:** No sensitizing effects known.· **Other information (about experimental toxicology):**

Halosulfuron-methyl, the active herbicidal ingredient in Sandea WG herbicide, is considered to be practically nontoxic orally or by inhalation and no more than slightly toxic dermally. It is slightly irritating to eyes and essentially nonirritating to the skin. Halosulfuron-methyl did not produce skin allergy in the guinea pig.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **NTP (National Toxicology Program)**

None of the ingredients are listed.

12 Ecological information

· **Toxicity**

Ecotoxicity data shown is for the active ingredient, halosulfuron-methyl.

48-hr EC50 Daphnia magna: >107 mg/L; practically nontoxic.

96-hr LC50 Bluegill sunfish: >118 mg/L; practically nontoxic.

96-hr LC50 Rainbow trout: >131 mg/L; practically nontoxic.

5-day EC50 Algae (*Selenastrum capricornutum*): 0.0041/L; very highly toxic.

· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(Contd. on page 7)

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 6)

- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**
Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, provincial, or local procedures.
- **Uncleaned packagings:**
 - **Recommendation:**
Dispose of empty container in a sanitary landfill, or by incineration, or, if allowed by provincial and local authorities, by burning. If burned, stay out of smoke. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14 Transport information

· UN-Number	
· DOT/TDG, ADR, ADN, IMDG, IATA	Not regulated
· UN proper shipping name	
· DOT/TDG, ADR, IMDG, IATA	Void
· ADN	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void
· ADN/R Class:	Void
· Packing group	
· DOT/TDG, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· UN "Model Regulation":	Not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Marketing authorization number:**
 - **SARA Title III**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

(Contd. on page 8)

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 7)

· **TSCA (Toxic Substances Control Act):**

None of the ingredients are listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

None of the ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

· **GHS label elements**

Not applicable

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

Not applicable



GHS07 GHS08

· **Signal word**

(US EPA) CAUTION

Danger

· **Hazard-determining components of labeling:**

Halosulfuron-methyl

· **Hazard statements**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

(Contd. on page 9)

Safety Data Sheet

according to PMRA

Printing date 10/02/2023

Reviewed on 10/02/2023

Trade name: SANDEA® WG HERBICIDE

(Contd. of page 8)

· **Other regulations, limitations and prohibitive regulations**

SARA Title III Classification

Section 302/304: Not applicable
Section 311/312: Immediate (acute) health hazard
Delayed (chronic) health hazard
Section 313 chemical(s): Not applicable

Proposition 65
Not Applicable

CERCLA Reportable Quantity (RQ)
None

RCRA Classification
Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status
Exempt from TSCA

DSL
Exempt from DSL

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H360 May damage fertility or the unborn child.

- **Department issuing SDS:** *Supply Chain*
- **Contact:** *sds@gowanco.com*
- **Date of the latest revision of the safety data sheet** *10/02/2023*
- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

· **Sources**
Sandea® is a registered trademark of Gowan Company, LLC

**Halosulfuron-methyl is manufactured by*
Nissan Chemical Industries, Ltd.
Product is protected by
U.S. Patent No. 4,668,277