

Reviewed on 02/28/2023

### 1 Identification

· Product identifier

· Trade name: Cliffhanger<sup>TM</sup> SC

· Article number: US90956

· CAS Number:

EPA Registration No.: 10163-374

Active Ingredient: Benzobicyclon (35.40%), CAS:156963-66-5

• Application of the substance / the mixture Agricultural herbicide

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Gowan Company, LLC.

P.O. Box 5569

Yuma, Arizona 85366-5569

(928) 783-8844

· 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(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
  - · GHS label elements Void
    - · Hazard pictograms Void
    - · Signal word Void
    - · Hazard statements Void
- · Hazard description:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear (specify protective eyewear, if appropriate) Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

- · Classification system:
  - · NFPA ratings (scale 0 4)



Health = 1 Fire = 0Reactivity = 0

#### HAZARD INDEX:

- 4 Severe Hazard
- 3 Serious Hazard
- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- · Other hazards
  - · Results of PBT and vPvB assessment
    - · **PBT:** Not applicable in US.
    - · vPvB: Not applicable in US.

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### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components: Void

#### 4 First-aid measures

Description of first aid measures

· General information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

- · 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: If symptoms persist consult doctor.
- Information for doctor:
  - · Most important symptoms and effects, both acute and delayed No further relevant information available.
  - $\cdot \textit{Indication of any immediate medical attention and special treatment needed}$

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.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear (specify protective eyewear, if appropriate) Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

· Environmental precautions:

Except when treating rice fields as specified in the label, 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment wash waters or rinseate. Do not apply when weather conditions favor drift from the area treated. Apply this product only as specified on this label.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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.

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# Safety Data Sheet acc. to OSHA HCS

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Protective Action Criteria for Chemicals

· PAC-1 ·

None of the ingredients are listed.

· *PAC-2*:

None of the ingredients are listed.

· PAC-3:

None of the ingredients are listed.

### 7 Handling and storage

- · Handling:
  - · Precautions for safe handling Store in a cool place.
  - · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
  - · Storage:
    - · Requirements to be met by storerooms and receptacles: Store in a cool location.
    - · Information about storage in one common storage facility: Store away from foodstuffs.
    - · Further information about storage conditions:
    - DO NOT contaminate water, food, or feed by storage or disposal.
- · 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 item 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: The lists that were valid during the creation were used as basis.
- · Exposure controls
  - · Personal protective equipment:
    - General protective and hygienic measures:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear (specify protective eyewear, if appropriate) Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Waterproof or Chemical-resistant Gloves.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

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substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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: Goggles recommended during refilling.
- · Body protection:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof or Chemical-resistant Gloves

nformation on basic physical and ch	emical properties		
· General Information	entent properties		
· Appearance:			
· Form:	Liquid		
· Color:	Light tan		
· Odor:	Mild		
· Odor threshold:	Not determined.		
· pH-value at 20 °C (68 °F):	8		
Change in condition			
Melting point/Melting range:	Undetermined.		
· Boiling point/Boiling range:	Undetermined.		
· Flash point:	Not applicable.		
· Flammability (solid, gaseous):	Not applicable.		
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 determined.		
Density at 20 °C (68 °F):	1.13 g/cm³ (9.42985 lbs/gal)		
· Relative density	Not determined.		
· Vapor density	Not determined.		
· Evaporation rate	Not determined.		
· Solubility in / Miscibility with			
· Water:	Dispersible.		
· Partition coefficient (n-octanol/wat	er): Not determined.		
· Viscosity:			
Dynamic:	Not determined.		

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· Other information

No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · 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	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.1 mg/l (rat)

- Primary irritant effect:
  - on the skin: Slightly irritating
  - · on the eye: Mild irritation
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

#### 12 Ecological information

· Toxicity

Except when treating rice fields as specified in the label, 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment wash waters or rinseate. Do not apply when weather conditions favor drift from the area treated. Apply this product only as specified on this label.

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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- · 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
  - · **PBT:** Not applicable.
  - · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
  - · Recommendation:

Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

- · Uncleaned packagings:
  - · Recommendation:

CONTAINER Handling: For plastic containers less than or equal to 5 gallons: Nonrefillable container. DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

FOR BULK AND MINI-BULK CONTAINERS

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

CONTAINER HANDLING: Before refilling, inspect thoroughly for damage including cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. REFILL ONLY WITH BENZOBICYCLON SC. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than BENZOBICYCLON SC will result in contamination and may weaken container. After filling and before transporting, check for leaks. DO NOT refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

· Recommended cleansing agent: Water, if necessary with cleansing agents.

#### 14 Transport information

- · UN-Number
  - · DOT, ADR, ADN, IMDG, IATA

Not regulated

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

#### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture EPA /FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency (EPA) 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.

- · 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.

· TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

· Hazardous Air Pollutants

None of the ingredients are listed.

- Proposition 65
  - · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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· Carcinogenicity categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

- · **GHS label elements** Not applicable
  - · Hazard pictograms Not applicable
  - · Signal word (US EPA) CAUTION
  - · Hazard statements Void
  - · Precautionary statements

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear (specify protective eyewear, if appropriate) Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

· 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.

- · Department issuing SDS: Systems Design and Control
- · Contact: sds@gowanco.com
  - Date of preparation / last revision 02/28/2023
  - · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- · Sources Cliffhanger<sup>TM</sup> SC herbicide is a registered trademark of Gowan Company, L.L.C.
- \* Data compared to the previous version altered.

US