Reviewed on 10/06/2022

1 Identification

· Product identifier

· Trade name: Rogue® SC Herbicide

· Article number: US65374

· CAS Number:

EPA Registration No.: 10163-375

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



GHS09 Environment

H400 Very toxic to aquatic life. Aquatic Acute 1

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · Label elements
 - · GHS label elements

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

· Hazard pictograms



GHS09

- · Signal word Warning
- · Hazard statements

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

· 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.

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Safety Data Sheet acc. to OSHA HCS

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· 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.

3 Composition/information on ingredients

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

CAS: 156963-66-5 Benzobicyclon Technical

🕸 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

35.4%

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.
- · 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
 - · Protective equipment: Wear self-contained respiratory protective device.

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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.

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: No special requirements.
 - · 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.

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- · 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

- · Material of gloves Waterproof or Chemical-resistant Gloves.
- · 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			
· 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.		
· Auto igniting:	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.		
· Vapor density · Evaporation rate	Not determined. Not determined.		

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· Solubility in / Miscibility with

· Water: Dispersible.

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

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

• 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 rele	evant for classification:
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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:
 - · 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.

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- · 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.
- · Ecotoxical effects:
 - · Remark: Toxic for fish
- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
 - · Recommendation:

Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
· DOT, ADR, IMDG, IATA	Void	
\cdot ADN	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	II of	
MARPOL73/78 and the IBC Code	Not applicable	
UN "Model Regulation":	Void	

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 (Contd. on page 7)

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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.

- · 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

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

· Hazard pictograms

Not applicable

· Signal word

(US EPA) CAUTION

· Hazard statements

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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· 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.

P273 Avoid release to the environment.

P391 Collect spillage.

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

· 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 10/06/2022
 - · 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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

· Sources Rogue® SC herbicide is a registered trademark of Gowan Company, L.L.C.

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