

Reviewed on 09/14/2022

1 Identification

- · Product identifier
 - · Trade name: <u>Badge® X2 Fungicide / Bactericide</u>
 - · Article number: US10-60906
 - CAS Number: EPA Registration No.:80289-12-10163 Acitve Ingredients: Copper Oxychloride (23.82%), CAS:1332-40-7 Copper Hydroxide (21.49%), CAS: 20427-59-2
 - · Application of the substance / the mixture Agricultural Fungicide / Bactericide

\cdot 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

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

· Label elements

· GHS label elements

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



- · Signal word Warning
- · Hazard-determining components of labeling:
- Copper hydroxide
- Hazard statements

H332 Harmful if inhaled.

- · Precautionary statements
- P261 Avoid breathing dust.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves / eye protection / face protection.

• Hazard description:

May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if inhaled. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Remove and wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Wear

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(Contd. of page 1) long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A). Avoid breathing dust. • Classification system: • NFPA ratings (scale 0 - 4)
$ \begin{array}{c} $
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
• <i>PBT:</i> 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 con	iponents:	
		23.82%
	Acute Toxicity - Oral 3, H301	
CAS: 20427-59-2	Copper hydroxide	21.49%
	Acute Toxicity - Inhalation 2, H330; 📀 Eye Damage 1, H318; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🕎 Acute Toxicity - Oral 4, H302	

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 1-888-222-1222 for emergency medical treatment 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-tomouth if possible.
- Call poison control center or doctor for further treatment advice.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• 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.

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 Remove co Call a pois	en and rinse slowly and gently with water for 15-20 minutes. ontact lenses, if present, after first 5 minutes, then continue rinsing eyes. son control center or doctor for treatment advice.	
Have persoDo not indi	n control center or doctor immediately for treatment advice. In sip a glass of water if able to swallow. Suce vomiting unless told to do so by a poison control center or doctor.	
• Information fo • Most import • Indication o	e anything by mouth to an unconscious person. for doctor: tant symptoms and effects, both acute and delayed Unknown of any immediate medical attention and special treatment needed elevant information available.	
5 Fire-fighting	measures	
· Sunavie exim	guishing agents:	
CO2, extinguis Special hazards of Advice for firefig Protective equ	<i>ipment:</i> Wear self-contained respiratory protective device.	resistant foam.
CO2, extinguis • Special hazards o • Advice for firefig	shing powder or water spray. Fight larger fires with water spray or alcohol arising from the substance or mixture Hydrogen chloride (HCl) ghters ipment: Wear self-contained respiratory protective device.	resistant foam.
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· Handling:

· Precautions for safe handling

May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if inhaled. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Remove and wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A). Avoid breathing dust.

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• 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 under well-vented, cool and dry storage conditions. 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.

Store under well-vented, cool and dry storage conditions. Do not store under moist conditions.

• 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.

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

· Exposure controls

• Personal protective equipment:

· General protective and hygienic measures:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • *Material of gloves* Chemical-resistant gloves.

· 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:



Body protection:

Protective work clothing

Mixers, loaders, applicators, and other handlers must wear the following:

– long-sleeved shirt and long pants

– shoes plus socks

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_protective eyewear (goggles, safety glasses, or face shield) – chemical-resistant gloves such as Natural Rubber

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. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Information on basic physical and ch	emical properties	
• General Information		
· Appearance:		
Form:	Granulate	
· Color:	Light blue	
· Odor:	Faint aromatic	
• Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	7.67	
· 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.	
· 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 applicable.	
· Density at 20 °C (68 °F):	1.11 g/cm ³ (9.26295 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
· Water:	Dispersible.	
· Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity:		
· Dynamic:	Not applicable.	
· Kinematic:	Not applicable.	

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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 None in particular. Store under well-vented, cool and dry storage conditions.
- 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 >3,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Mild irritation

• Sensitization: No sensitizing effects known.

• Additional toxicological information: 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

· Toxicity

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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 washwaters or rinsate.

• Aquatic toxicity: No further relevant information available.

• Persistence and degradability No further relevant information available.

• Other information:

Data referred to technical Copper Oxychloride CAS: 1332-40-7 Fish (Onchorincus mykiss): LC50 (96h): 0.217 mg Cu/L Freshwater invertibrate (Daphnia magna): LC50 (48h): 0.29 mg Cu/L Algae (Scenedesmus Subspicatus): EC50 (72h): 56.3 mg Cu/L

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Data referred to technical Copper Hydroxide CAS: 20427-59-2

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Badge® X2 Fungicide / Bactericide

Fish (Onchorincus mykiss): LC50 (96h): 0.0165 mg Cu/L Freshwater invertibrate (Daphnia magna): LC50 (48h): 0.0422 mg Cu/L Algae (Scenedesmus Subspicatus): EC50 (72h): 22.5 mg Cu/L

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. • 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 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

· 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:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

· Uncleaned packagings:

· Recommendation:

Empty the package completely. Then dispose of the empty container according to state and local regulations. Place in trash or offer for recycling if available or return it to the Seller, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

UN-Number	
·DOT	Void
· ADR, IMDG, IATA	UN3077
UN proper shipping name	
· DOT	Void
· ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI
	N.O.S.
· IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLL
	N.O.S.
Transport hazard class(es)	
·DOT	
· Class	Void

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· ADR, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
·IMDG	·····
· Class · Label	9 Miscellaneous dangerous substances and articles 9
Packing group • DOT • ADR, IMDG, IATA	Void III
Environmental hazards: • Marine pollutant: • Special marking (ADR): • Special marking (IATA):	No Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user • EMS Number: • Stowage Category • Stowage Code	Warning: Miscellaneous dangerous substances and articles F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2. and 7.7.3.9.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable
Transport/Additional information:	
• ADR • Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
• IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	US DOT: Not regulated
	OTHERS MODE OF TRANSPORTATION: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S(Copper Oxychloride, Copper Hydroxide). 9, III

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• Safety, health and environmental regulations/legislation specific for the substance or m • Marketing authorization number: • SARA Title III	ixture
Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 20427-59-2 Copper hydroxide	
TSCA (Toxic Substances Control Act):	
CAS: 20427-59-2 Copper hydroxide	ACTIVE
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* (USA EPA) WARNING
- *Hazard-determining components of labeling: Copper hydroxide*
- Hazard statements Not applicable H332 Harmful if inhaled.

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· Precautionary statements

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May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if inhaled.Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Remove and wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A). Avoid breathing dust.

P261 Avoid breathing dust. P264 Wash thoroughly after handling.

1204 Wash introdugnly after handling.

P280 Wear protective gloves / eye protection / face protection.

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

16 Other information

Notice: The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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 09/14/2022

· 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 Acute Toxicity - Oral 3: Acute toxicity - Category 3 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Inhalation 2: Acute toxicity - Category 2 Eye Damage 1: Serious eye damage/eye irritation – Category 1 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 Badge[®] is a registered trademark of Gowan Company, L.L.C. • * Data compared to the previous version altered.