

1 Identification

· Product identifier

· Trade name: **BADGE SC**

· Article number: SC501-2-US

· CAS Number:

EPA Registration No.: 10163-396

Active Ingredient: Copper Oxychloride* (16.81%), CAS:1332-40-7

Copper Hydroxide* (15.36%), CAS: 20427-59-2

*Metallic Copper (Cu) Equivalent is 20% by weight or 2.27 Pounds Metallic Copper per gallon

· Application of the substance / the mixture Agricultural Fungicide/Bactericide

· 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



GHS07

Acute Toxicity - Oral 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

· Signal word Warning

· Hazard statements

H302 Harmful if swallowed.

· Precautionary statements

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

P273 Avoid release to the environment.

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

P330 Rinse mouth.

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

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- **Hazard description:**

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

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

- **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: 1332-40-7	Copper oxychloride	16.81%
	☠ Acute Toxicity - Oral 3, H301	
CAS: 20427-59-2	Copper hydroxide	15.36%
	☠ Acute Toxicity - Inhalation 2, H330; ☠ Eye Damage 1, H318; ⚠ 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 1-888-478-0798 for emergency medical treatment information.

- **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 affected person sip a glass of water if able to swallow.
- Do not induce vomiting unless told 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.

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- **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:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
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, 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.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **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:

CAS: 20427-59-2	Copper hydroxide	4.6 mg/m ³
CAS: 63148-62-9	Dimethyl siloxane	65 mg/m ³
CAS: 4719-04-4	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	2.3 mg/m ³

· PAC-2:

CAS: 20427-59-2	Copper hydroxide	33 mg/m ³
CAS: 63148-62-9	Dimethyl siloxane	720 mg/m ³
CAS: 4719-04-4	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	25 mg/m ³

· PAC-3:

CAS: 20427-59-2	Copper hydroxide	200 mg/m ³
CAS: 63148-62-9	Dimethyl siloxane	4,300 mg/m ³
CAS: 4719-04-4	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	150 mg/m ³

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7 Handling and storage

- **Handling:**
 - **Precautions for safe handling** No special precautions are necessary if used correctly.
 - **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, dry, well-ventilated area.
 - **Information about storage in one common storage facility:**
Do not ship or store near food, feed, seed and fertilizers.
 - **Further information about 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.
- **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.
 - **Breathing equipment:** Not required.
 - **Protection of hands:**



Protective gloves

- **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:** Goggles recommended during refilling.
- **Body protection:**
Mixers, loaders, applicators, and other handlers must wear the following:
 - long-sleeved shirt and long pants
 - shoes plus socks
 - chemical-resistant gloves such as Natural Rubber

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
 - **General Information**
 - **Appearance:**
 - **Form:** Liquid

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· Color:	Light blue-green
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	9
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	>100 °C (>212 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	371 °C (699.8 °F)
· 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 at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1.365 g/cm ³ (11.39093 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Dispersible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	7.0 %
· Water:	50.3 %
· VOC content:	7.00 %
· Solids content:	0.0 %
· 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:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Do not store under moist conditions.
- **Incompatible materials:** No further relevant information available.

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· **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	>2,000 mg/kg (rat) Method OECD 401
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>3.994 mg/l (rat) Maximum achievable concentration

CAS: 1332-40-7 Copper oxychloride

Oral	LD50	100 mg/kg (ATE)
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CAS: 20427-59-2 Copper hydroxide

Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	0.47 mg/l (ATE)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

Data referred to Copper Oxychloride tech. grade:

Acute toxicity:

LD50 (oral):

1862 mg/kg (rat, male and female) (OECD 401)

LD50 (dermal):

> 2000 mg/kg (rabbit) (OECD 404)

LC50 (4h) (inhalation) (OECD 403, EC B.2):

Not classified for inhalation

impossible to generate an inhalable atmosphere

Irritating power:

Skin/Eyes: Not classified as irritant

Sensitization (OECD 406):

Skin: not classified as sensitizing agent (Guinea Pig, maximisation test)

Carcinogenic effects (OECD 451):

No carcinogenic effect (tests on rats)

No evidence of carcinogenic potential (ingestion, man)

Mutagenic effects (OECD 474):

No mutagenic effects

Teratogenic effects (EPA-TSCA 793400):

No evidence of teratogenic effects (tests on rats)

Reproduction toxicity (OECD 416):

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*No evidence of toxicity**Data referred to Copper Hydroxide tech. grade:**a) acute toxicity:**LD50 (oral):**489 mg/kg (rat, male + female) (US EPA 81-1) (2)**1280 mg/kg (rat, male) (US EPA 81-1) (2)**LD50 (dermal):**> 2000 mg/kg (rat, male + female) (OECD 402) (2)**LC50 (4h) (inhalation):**Not applicable (test can not be done due to physical form)**b) corrosion/dermal irritation;**Skin: slightly irritant (rabbit). Not classified as skin irritant (OECD 404)**Eyes: Severely irritant and risk of serious damage for eyes in case of contact.**Sensitization (OECD 406) (2):**Skin: not classified as sensitizer (Guinea Pig, maximisation test)**Carcinogenic effects (OECD 451) (2):**No carcinogenic effects (test, rat)**No evidence of carcinogenic effects for ingestion (man)**Mutagenic effects (OECD 474) (2):**No mutagenic effects**Teratogenic effects (EPA-TSCA 793400) (2):**No teratogenic effects (test, rat)**Reproductive toxicity (OECD 416) (2):**No evidence of reproductive toxicity**Data referred to D-glucopirranose oligomers, octyl decyl glycosides(2):**a) acute toxicity:**DL50 (oral): > 5000 mg/kg (OECD 401) (2)**CL50 (inhalation), rat: not determined(2)**DL50 (dermal): > 2000 mg/kg (OECD 402) (2)**b) corrosion/dermal irritation;**Slightly irritant (OECD 404) (2)**c) serious eye damage/irritation:**Risks of severe irreversible damages**The product was not tested.**Information on the basis of similar products.**d) respiratory or skin sensitisation:**Not sensitizing agent (OECD 406) (2)**e) germ cell mutagenicity:**All available information does not give any evidence of germ cell mutagenicity*

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f) carcinogenicity:

All available information does not give any evidence of carcinogenic effects

g) reproductive toxicity:

All available information does not give any evidence of reproductive toxicity

h) STOT-single exposure:

No evidence of STOT SE toxicity

i) STOT-repeated exposure:

No evidence of STOT RE toxicity

j) aspiration hazard.

No aspiration hazard

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

· Aquatic toxicity:

Data referred to the mixture:

Fish –

Acute/chronic toxicity (OECD 203):

Onchorynchus mykiss,

LC50 (96 h) = 12.2 mg Cu/L

NOEC = 0.4 mg Cu/L

Invertebrates –

Acute/chronic toxicity (OECD 202):

Daphnia magna,

EC50 (48 h): 101 µg/L

NOEC (48 h): 38.5 µg/L

Algae-

Acute/chronic toxicity (OECD 201):

Desmodesmus subspicatus,

ErC50 (72h): 157.98 µg Cu/L

EyC50 (72h): 38.27 µg Cu/L

Bee -

Acute toxicity (OECD 213/214 (1998)):

Oral LD50 (24 h) = 18.6 µg a.i./bee

Contact LD50 (24 h) > 100 µg a.i./bee

Oral LD50 (48 h) = 15.6 µg a.i./bee

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Contact LD50 (48 h) > 100 µg a.i./bee

Effets on soil macro-organisms:

Earthworms -

Acute toxicity:

LC50 > 1000 mg Cu/kg soil dry weight

· **Persistence and degradability**

Data referred to copper oxychloride tech. / copper hydroxide tech.:

Stable to hydrolysis and not expected to be degraded by photolysis in water.

Not readily biodegradable.

BOD: not applicable

COD: not available

· **Behavior in environmental systems:**· **Bioaccumulative potential**

Data referred to copper oxychloride tech. / copper hydroxide tech.:

Not applicable due to salt insolubility

· **Mobility in soil**

Data referred to copper oxychloride tech. / copper hydroxide tech.:

Not available. Copper is considered weakly mobile in soil

· **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.

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

· **Uncleaned packagings:**· **Recommendation:**

This is a non-refillable container. Do not reuse or refill this container. Empty the package completely into application equipment by shaking and tapping sides. 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.

For rigid, non-refillable containers (2.5 to 5 gallons)

Non-refillable container. Do not reuse or refill this container. Clean container 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 one-fourth 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, or, if allowed by state and local authorities, by burning. If burned, stay out of resulting smoke.

For rigid, non-refillable containers that are too large to shake (with capacities greater than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying.

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Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of resulting smoke.

Pressure Rinse Procedures (all sizes)

Pressure rinse as follows: Empty the remaining contents into application equipment or a tank mix and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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

14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

UN3082

· UN proper shipping name

· DOT

Environmentally hazardous substance, liquid, n.o.s. (Copper hydroxide, Copper oxychloride)

· ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper hydroxide, Copper oxychloride)

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper Oxychloride, 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol)

· IMDG

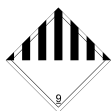
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper hydroxide, Copper oxychloride), MARINE POLLUTANT

· IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper hydroxide, Copper oxychloride)

· Transport hazard class(es)

· DOT



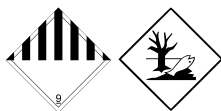
· Class

9 Miscellaneous dangerous substances and articles

· Label

9

· ADR, IMDG, IATA



· Class

9 Miscellaneous dangerous substances and articles

· Label

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· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Hazard identification number (Kemler code):	60
· EMS Number:	F-A,S-A
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	US DOT: No Bulk: Not regulated Bulk: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER HYDROXIDE, COPPER OXYCHLORIDE), 9, III

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.

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· Section 313 (Specific toxic chemical listings):		
CAS: 20427-59-2	Copper hydroxide	
· TSCA (Toxic Substances Control Act):		
CAS: 7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
CAS: 20427-59-2	Copper hydroxide	ACTIVE
CAS: 9084-06-4	naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt	ACTIVE
CAS: 14038-43-8	Prussian blue	ACTIVE
CAS: 11138-66-2	Xanthan Gum	ACTIVE
CAS: 63148-62-9	Dimethyl siloxane	ACTIVE
CAS: 4719-04-4	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	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

(US EPA) CAUTION

· Hazard statements

H302 Harmful if swallowed.

· Precautionary statements

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

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P273 Avoid release to the environment.

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

P330 Rinse mouth.

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** 11/01/2022· **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)

VOC: Volatile Organic Compounds (USA, EU)

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

· **Sources** Badge® SC is a registered trademark of Gowan Company, L.L.C.

US