



Canada Colors and Chemicals Limited

**152 Kennedy Road South
Brampton, Ontario
Canada
L6W 3G4**

General Inquiry Number: (905) 459-1232

Safety Data Sheet Attached



SAFETY DATA SHEET BELCOR® 593

1. Identification

Product identifier

Product name BELCOR® 593

Chemical name Polycarboxylic acid

Product number 100260, 100261, 100262, 100263, 100264, 100739, 100785, 101438, 101440, 101441

Recommended use of the chemical and restrictions on use

Restriction on use Corrosion inhibitor.

Details of the supplier of the safety data sheet

Supplier BWA Water Additives US LLC
1979 Lakeside Parkway
Suite 925
Tucker, GA 30084
USA
T: (800) 600-4523
(Technical/commercial enquiries)
E: msds@wateradditives.com

**Distributed by: Canada Colors
and Chemicals LTD/ 152
Kennedy Road/ South
Bramton, Ontario L6W3G4**

Emergency telephone number

Emergency telephone +44 (0) 1235 239 670 (NCEC)

2. Hazard identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

3. Composition/information on ingredients

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

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Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Skin contact	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known. Upper respiratory irritation.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin contact	No specific symptoms known. Prolonged skin contact may cause redness and irritation.
Eye contact	No specific symptoms known. May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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5. Fire-fighting measures**Extinguishing media**

Suitable extinguishing media	Extinguish with the following media: Water spray, fog or mist. Powder. Foam. Carbon dioxide (CO ₂).
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Specific hazards arising from the hazardous product

Specific hazards	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Oxides of the following substances: Nitrogen. No unusual fire or explosion hazards noted.
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Advice for firefighters

Protective actions during firefighting	Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Leave danger zone immediately. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.
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Environmental precautions

Environmental precautions	Avoid release to the environment. To prevent release, place container with damaged side up.
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Methods and material for containment and cleaning up

Methods for cleaning up	Sweep up immediately, place in marked container and dispose of in accordance with local waste disposal regulations.
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Reference to other sections

Reference to other sections	For waste disposal, see section 13.
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7. Handling and storage**Precautions for safe handling**

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Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in a tightly-closed, original container in a dry, cool, and well-ventilated place. Store at temperatures not exceeding 50°C /122°F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials; alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminum. Do not use containers made of Carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

Storage class Unspecified storage.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Ingredient comments No exposure limits known for ingredient(s).

Exposure controls**Protective equipment**

Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures Provide eyewash station. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Appearance Granules.

Colour White/off-white.

Odour No characteristic odour.

Odour threshold Not applicable. Not applicable.

pH pH (diluted solution): ca. 6 1% solution

Melting point ~180°C

Initial boiling point and range Not applicable.

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Flash point	Not available.
Freezing Point:	
Evaporation rate	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.28 @ @ 21°C
Bulk density	1.28 kg/l
Solubility(ies)	<0.01 (pH 7) @ °C Very soluble in the following materials: Alkalis.
Partition coefficient	log Pow: -3.52
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Explosive properties	Not available.
Oxidising properties	Does not meet the criteria for classification as oxidizing.
Other information	Not available.

10. Stability and reactivity

Reactivity	Reacts with alkalis and generates heat.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	Strong oxidizing agents. Strong alkalis. Strong acids.
Hazardous decomposition products	Toxic gases/vapours/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x).

11. Toxicological information**Information on toxicological effects****Supplemental Toxicological Information****Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

BELCOR® 593**Acute toxicity - inhalation****Notes (inhalation LC₅₀)** Data lacking.**Skin corrosion/irritation****Skin corrosion/irritation** Based on available data the classification criteria are not met.**Serious eye damage/irritation****Serious eye damage/irritation** Based on available data the classification criteria are not met.**Respiratory sensitization****Respiratory sensitization** Data lacking.**Skin sensitization****Skin sensitization** Based on available data the classification criteria are not met.**Germ cell mutagenicity****Genotoxicity - in vitro** Data lacking. Does not contain any substances known to be mutagenic.**Carcinogenicity****Carcinogenicity** Data lacking. Does not contain any substances known to be carcinogenic.**Reproductive toxicity****Reproductive toxicity - fertility** Data lacking. Does not contain any substances known to be toxic to reproduction.**Specific target organ toxicity - single exposure****STOT - single exposure** Data lacking.**Specific target organ toxicity - repeated exposure****STOT - repeated exposure** Data lacking.**Aspiration hazard****Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.**12. Ecological Information****Ecotoxicity** The product is not expected to be hazardous to the environment.**Acute toxicity - fish** LC₅₀, 96 hours: > 1000 mg/l, Brachydanio rerio (Zebra Fish)
LC₅₀, 96 hours: >1000 mg/l, Fish**Acute toxicity - aquatic invertebrates** EC₅₀, 48 hours: > 180 mg/l, Daphnia magna
EC₅₀, 48 hours: >180 mg/l, Daphnia magna**Acute toxicity - aquatic plants** IC₅₀, 72 hours: > 100 mg/l, Freshwater algae
IC₅₀, 72 hours: >100 mg/l, Algae**Persistence and degradability****Persistence and degradability** Inherently biodegradable**Bioaccumulative potential****Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.**Partition coefficient** log Pow: -3.52**Mobility in soil****Mobility** The product has poor water-solubility.**Other adverse effects**

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Other adverse effects Not available.

13. Disposal considerations**Waste treatment methods**

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

UN proper shipping name**Packing group****Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

15. Regulatory information**Inventories****EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

Canada – DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan – MITI

Not listed.

JAPAN- IHSL

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

BELCOR® 593**China - IECSC**

All the ingredients are listed or exempt.

Phillippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

16. Other information

General information	For advice on chemical emergencies, spillages, fires or first aid in relation to this product please contact the relevant emergency number below : EU/English Speakers - +44 (0) 1235 239 670 (NCEC) Arabic Speakers - +44 (0) 1235 239 671 Asia/Pacific countries - +65 3158 1074 For emergencies within China - +86 10 5100 3039
Revision comments	10. Re-issued following software change 10.1 Section 11 revised
Issued by	BWA Water Additives Regulatory Group, +44(0)1618646699
Revision date	28/04/2017
Revision	10.1
SDS number	10618
WHMIS (1988)	D2 Materials Causing Other Toxic Effects.
NFPA - instability hazard	Normally stable. (0)
NFPA - special hazard	N/A
ACA HMIS Health rating.	Minimal Hazard. (0)
NFPA - health hazard	No health hazards specifically noted for fire situations. (0)
NFPA - flammability hazard	Burns only if pre-heated. (1)
ACA HMIS Flammability rating.	Burns only if pre-heated. (1)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	C

For safety reasons it is IMPERATIVE that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.

2. Consult BWA Water Additives before using or supplying the product for any other applications. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.