



MATERIAL SAFETY DATA SHEET

Belcor 575

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Belcor 575
CHEMICAL NAME Hydroxyphosphonoacetic acid
PRODUCT NO. BWA79500
PRODUCT USE Corrosion inhibitor
SUPPLIER BWA Water Additives US LLC
 1979 Lakeside Parkway
 Suite 925
 Tucker
 GA 30084
 TEL (800) 600-4523
 CUSTOMER SERVICE
EMERGENCY TELEPHONE Chemtrec Phone: 1-800-424-9300
IDENTIFICATION No. 3265

2 HAZARDS IDENTIFICATION

HUMAN HEALTH

Corrosive to skin and eyes.

POTENTIAL HEALTH EFFECTS

INHALATION

May cause irritation to the respiratory system. Avoid breathing vapors or mist

INGESTION

Harmful if swallowed.

SKIN CONTACT

May cause serious chemical burns of the skin. May cause sensitization by skin contact.

EYE CONTACT

Risk of serious damage to eyes.

HEALTH WARNINGS

This chemical may cause skin/eye irritation and burns (corrosive).

ROUTE OF ENTRY

Skin and/or eye contact.

TARGET ORGANS

Eyes. Skin.

MEDICAL SYMPTOMS

Eye contact may cause: Visual disturbances, incl. blurred vision. Skin contact may cause: Severe skin irritation.

CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
Hydroxyphosphono acetic acid	405-710-8	23783-26-8	30-60%
PHOSPHONIC ACID	233-663-1	10294-56-1	1-5%

EU INDEX NO. 015-159-00-1
EC (EINECS) NO. 405-710-8
CAS-NO. 23783-26-8

4 FIRST-AID MEASURES

Belcor 575

INHALATION

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention.

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

Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapors/fumes of Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of: Phosphorus.

PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

FLAMMABILITY CLASS

No Uniform Fire Code noted.

6 ACCIDENTAL RELEASE MEASURES

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. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. To prevent release, place container with damaged side up.

SPILL CLEAN UP METHODS

Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

HANDLING

Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Avoid contact with skin and eyes. Observe good industrial hygiene practices. Remove contaminated clothing and wash before reuse.

STORAGE

Store separated from: Alkalies. Cyanides. Reducing Agents. Do NOT use container made of: Carbon steel. Keep containers tightly closed. Protect from light, including direct sunrays.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

PROCESS CONDITIONS

Provide eyewash, quick drench.

PROTECTIVE EQUIPMENT

Belcor 575**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Butyl rubber.

EYE PROTECTION

Wear approved safety goggles. Use face shield in case of splash risk.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

SKIN PROTECTION

Wear apron or protective clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOR	Dark brown.		
ODOR	Slight odor		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	100 - 103	MELTING POINT (°C)	<-5
RELATIVE DENSITY	1.394 - 1.445 @ 20 °C	VAPOR PRESSURE	17.5 mmHg @ 20 °C
pH-VALUE, CONC. SOLUTION	<2	VISCOSITY	max 75 cps @ 25 °C
PARTITION COEFFICIENT (N-Octanol/Water)	<0		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Reacts with alkalis and generates heat. Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERISATION

Will not polymerize.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of: Phosphorus.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2754 mg/kg (oral rat)

TOXICOLOGICAL INFORMATION

Strong skin sensitisation potential (active ingredient)

INHALATION

May cause irritation to the respiratory system. Avoid breathing vapors or mist

INGESTION

Harmful if swallowed.

SKIN CONTACT

May cause serious chemical burns of the skin. May cause sensitization by skin contact.

EYE CONTACT

Risk of serious damage to eyes.

Belcor 575

HEALTH WARNINGS

This chemical may cause skin/eye irritation and burns (corrosive).

Other Health Effects

This substance has no evidence of carcinogenic properties.

MEDICAL SYMPTOMS

Eye contact may cause: Visual disturbances, incl. blurred vision. Skin contact may cause: Severe skin irritation.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 380
 EC 50, 48 Hrs, DAPHNIA, mg/l 140
 IC 50, 72 Hrs, ALGAE, mg/l 30

DEGRADABILITY

The product is expected to be biodegradable.

Biodegradability. OECD-test 93% OECD 302B

13 DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Absorb in vermiculite or dry sand, dispose in licensed hazardous waste. 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.

14 TRANSPORT INFORMATION



DOT PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains hydroxyphosphono acetic acid)		
TDG SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains hydroxyphosphono acetic acid)		
IDENTIFICATION No.	3265	DOT HAZARD CLASS	8
DOT PACKING GROUP	III	U.S DOT HAZARD LABEL	Corrosive
UN NO. SEA	UN3265	IMDG CLASS	8
IMDG PACK GR.	II	EMS	F-A, S-B
MARINE POLLUTANT	No.	TDG PACKING GROUP	III

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
PHOSPHONIC ACID	DSL	Yes	EINECS				Yes	
Hydroxyphosphono acetic acid	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT	TSCA 12(b) Export Notification
PHOSPHONIC ACID	N/A
Hydroxyphosphono acetic acid	No

Belcor 575

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
PHOSPHONIC ACID			No
Hydroxyphosphono acetic acid			No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
PHOSPHONIC ACID	No
Hydroxyphosphono acetic acid	No

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
PHOSPHONIC ACID	10294-56-1	No	No	No	No	No	No	No
Hydroxyphosphono acetic acid	23783-26-8	No	No	No	No	No	No	No

SARA (311/312) HAZARD CATEGORIES

Acute

REGULATORY STATUS (US)

SARA Title III Section 313. TSCA: The ingredients of this product are on the TSCA Inventory. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required. This Product is Hazardous under the OSHA Hazard Communication Standard.

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Corrosive Material.



Materials Causing Other Toxic Effects.

CONTROLLED PRODUCT CLASSIFICATION

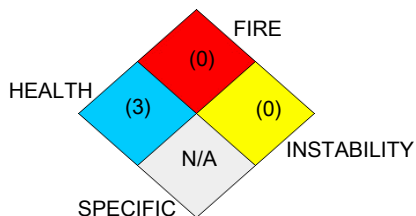
Canadian WHMIS Classification E D2B

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	3
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



REVISION COMMENTS

New company name & new format

ISSUED BY

G.B.

Belcor 575**REVISION DATE** 12th June 2007**VERSION No.** 02**SDS NO.** 10751**SAFETY DATA SHEET STATUS**

Approved.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.