



MATERIAL SAFETY DATA SHEET

BELCOR 575

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME BELCOR 575
CHEMICAL NAME Hydroxyphosphonoacetic acid
PRODUCT NO. 100255, 100257, 100258, 100259
PRODUCT USE Corrosion inhibitor.
SUPPLIER BWA Water Additives US LLC
1979 Lakeside Parkway
Suite 925, Tucker. GA30084.
T: (800) 600-4523 .
(Technical/commercial enquiries)
E: MSDS@wateradditives.com
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. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

SKIN CONTACT

Causes burns.

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
HYDROXYPHOSPHONOACETIC ACID	405-710-8	23783-26-8	30-60%
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	1-5%

BELCOR 575

PHOSPHOROUS ACID	237-066-7	10294-56-1	1-5%
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COMPOSITION COMMENTS

50% solution of hydroxyphosphono acetic acid in water

4 FIRST-AID MEASURES

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 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

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: Water spray, foam, dry powder or carbon dioxide.

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 material safety data sheet. Follow precautions for safe handling described in this material 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 chemical hygiene practices. Remove contaminated clothing and wash before reuse.

STORAGE

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

BELCOR 575

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
PHOSPHORIC ACID ...%	OSHA		1 mg/m3			
PHOSPHORIC ACID ...%	ACGIH		1 mg/m3		3 mg/m3	
COMPONENT						IDLH
PHOSPHORIC ACID ...%						1000 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

PROCESS CONDITIONS

Provide eyewash, quick drench.

PROTECTIVE EQUIPMENT



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

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pH-VALUE, CONC. <2
SOLUTION
VISCOSITY max 75 cps @ 25 °C
PARTITION COEFFICIENT <0
(N-Octanol/Water)

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 polymerise.

MATERIALS TO AVOID

Strong alkalis. Strong reducing agents.

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. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

SKIN CONTACT

Causes burns.

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).

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 820

EC 50, 48 Hrs, DAPHNIA, mg/l 140

IC 50, 72 Hrs, ALGAE, mg/l 30

DEGRADABILITY

The product is expected to be biodegradable.

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 and dispose of at a licenced hazardous waste collection point.

BELCOR 575

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



TDG SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains hydroxyphosphono acetic acid)
CLASSIFICATION CODE (ADR)	C3
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
IDENTIFICATION No.	3265
DOT HAZARD CLASS	8
DOT PACKING GROUP	II
U.S DOT HAZARD LABEL	Corrosive
UN NO. SEA	3265
IMDG CLASS	8
IMDG PACK GR.	II
EMS	F-A, S-B
MARINE POLLUTANT	No.
UN NO. AIR	3265
AIR CLASS	8
AIR PACK GR.	II
TDG PACKING GROUP	II

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
PHOSPHORIC ACID ...%	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.
PHOSPHOROUS ACID	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.
HYDROXYPHOSPHONOACETIC ACID	DSL	Yes.	EINECS	Yes.	No.	Yes.	Yes.	Yes.

COMPONENT	TSCA 12(b) Export Notification
HYDROXYPHOSPHONOACETIC ACID	No.

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPC	CERCLA-RQ	SARA 313
PHOSPHORIC ACID ...%		5 000 lbs	Yes.
PHOSPHOROUS ACID			No.
HYDROXYPHOSPHONOACETIC ACID			No.

BELCOR 575

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
PHOSPHOROUS ACID	No
HYDROXYPHOSPHONOACETIC ACID	No

US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
PHOSPHORIC ACID ...%	7664-38-2	No	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
PHOSPHOROUS ACID	10294-56-1	No	No	No	No	Yes.	No	No
HYDROXYPHOSPHONOACETIC 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

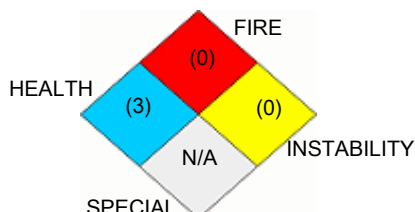
Canadian WHMIS Classification E D2B

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		3
FLAMMABILITY		0
PHYSICAL		0
PERSONAL PROTECTION		C

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



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)

BELCOR 575

Arabic Speakers - +44 (0) 1235 239 671

Asia/Pacific countries - +65 3158 1074

For emergencies within China - +86 10 5100 3039

REVISION COMMENTS

Updated MSDS, no substantial changes. Part Numbers Updated

ISSUED BY

S.G.

REVISION DATE June 13, 2012

VERSION No. 5

SDS NO. 10751

MATERIAL 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.