

MATERIAL SAFETY DATA SHEET BELCLENE 440

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

PRODUCT NAME	BELCLENE 440
CHEMICAL NAME	Derivative of Acrylic acid Copolymer.
PRODUCT NO.	100834, 100835, 100957, 100958
PRODUCT USE	Scale inhibitor
SUPPLIER	BWA Water Additives US LLC
	1979 Lakeside Parkway
	Suite 925, Tucker, GA30084
	USA
	T: 1 800.600.4523
	T: 1 678.802.3050
	(Technical/commercial enquiries)
	E: msds@wateradditives.com
EMERGENCY TELEPHONE	Chemtrec Phone: 1-800-424-9300
IDENTIFICATION No.	3265

2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting.

SKIN CONTACT

Non Irritant. Not a skin sensitizer.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

No specific health warnings noted.

3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION COMMENTS

Aqueous solution of Acrylic acid copolymer.

* HMIRC Registration Number 8626. The filing date associated with this product is: May 30, 2012.

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat Symptomatically.

INHALATION

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

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. 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

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

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). The product is non-combustible. If heated, irritating vapors may be formed.

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this material safety data sheet. For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. 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. Observe good chemical hygiene practices. Do not handle broken packages without protective equipment.

STORAGE

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Store separated from: Alkalis. Reducing Agents. Do NOT use container made of: Carbon steel.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROCESS CONDITIONS Provide eyewash station. PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

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. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

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. Wash contaminated clothing before reuse.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOR	Light (or pale). Yellow.
SOLUBILITY	Soluble in water.
BOILING POINT (°C)	100 - 102 @ 760 mm Hg
pH-VALUE, CONC.	< 2
SOLUTION	
PARTITION COEFFICIENT	<0
(N-Octanol/Water)	

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong alkalis. Organic nitrites. Inorganic nitrites. Chemically active metals.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >

>5000 mg/kg (oral rat)

>2000 mg/kg (skin rat)

TOXICOLOGICAL INFORMATION

Ames Test negative

TOXIC DOSE 2 - LD 50

INHALATION

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INGESTION

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SKIN CONTACT

Non Irritant. Not a skin sensitizer.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

No specific health warnings noted.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

LC 50, 96 Hrs, FISH mg/l >100

EC 50, 48 Hrs, DAPHNIA, >100

mg/l

IC 50, 72 Hrs, ALGAE, mg/l <100

MOBILITY

The product is miscible with water. May spread in water systems.

BIOACCUMULATION

The product does not contain any substances expected to be bio-accumulating.

DEGRADABILITY

Not readily 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.

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 derivative of acrylic acid copolymer.)
CLASSIFICATION CODE (ADR)	C3
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE	No.
POLLUTANT IDENTIFICATION No.	3265
TUNNEL RESTRICTION	(E)
DOT HAZARD CLASS	8
DOT PACKING GROUP	III
U.S DOT HAZARD LABEL	Corrosive
UN NO. SEA	3265
IMDG CLASS	8
IMDG PACK GR.	

EMS	F-A, S-B
UN NO. AIR	3265
AIR CLASS	8
AIR PACK GR.	III
TDG CLASS	8
TDG PACKING GROUP	III

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP	
Derivative Acrylic Acid Polymer	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.	
COMPONENT				TSCA 12(b) Export Notification					
Derivative Acrylic Acid Polymer				No.					
US FEDERAL REGULATIONS									
COMPONENT			SARA	302-TF		LA-RQ	SARA	313	
Derivative Acrylic Acid Polymer			No		No		No.		
CLEAN AIR ACT									
COMPONENT			CAA Ac	cidenta	l Releas	e Prev	ention		
Derivative Acrylic Acid Polymer			No						
US STATE REGULATIONS									
	FDA	FDA ESSENTIAL CHEMICA FDA PRECURSOR							
COMPONENT	1.0/			No. No.					
COMPONENT Derivative Acrylic Acid Polymer					No.				
Derivative Acrylic Acid Polymer					No.	i		_	
			CA FL	. M		N NJ	PA	RI	

REGULATORY STATUS (US)

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

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. TSCA: The ingredients of this product are on the TSCA Inventory.

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY





Materials Causing Other Toxic Effects.

er Corrosive Material

CONTROLLED PRODUCT CLASSIFICATION

Canadian WHMIS Classification D2B E

16 OTHER INFORMATION

HEALTH	2
FLAMMABILITY	0
PHYSICAL	0
PERSONAL PROTECTION	С

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



GENERAL INFORMATION

Classified as corrosive class 8 for transportation on the basis of its effect on mild steel and/or aluminium.

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

General Revision of SDS

ISSUED BY

August 30th, 2012
4
10878

MATERIAL SAFETY DATA SHEET STATUS Approved.

DISCLAIMER

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.