

**MATERIAL SAFETY DATA SHEET****Belclene 440****1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME	Belclene 440
CHEMICAL NAME	Derivative of Acrylic Acid Copolymer
PRODUCT NO.	BWA B440
PRODUCT USE	Scale inhibitor
SUPPLIER	BWA Water Additives US LLC 1979 Lakeside Parkway Suite 925, Tucker, GA30084. TEL (800) 600-4523 CUSTOMER SERVICE
EMERGENCY TELEPHONE	Chemtrec Phone: 1-800-424-9300
IDENTIFICATION No.	3265

2 HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS****INHALATION**

No specific health warnings noted.

INGESTION

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.

ROUTE OF ENTRY

Skin and/or eye contact.

TARGET ORGANS

Eyes. Skin.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
Derivative of Acrylic Acid Copolymer			30-60%

COMPOSITION COMMENTS

Aqueous solution of Acrylic acid copolymer. The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200 (1) (2) (3) (4). This Material Safety Data Sheet provides information for employee training and hazard identification. The specific identity of the component(s) of this product is withheld as a trade secret.

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

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.

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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

Fire can be extinguished using: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Foam. Water spray, fog or mist.

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

No unusual fire or explosion hazards noted. This material will not burn until the water has evaporated. Residue can burn.

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

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. To prevent release, place container with damaged side up. Contain spillages with sand, earth or any suitable adsorbent material. Collect and dispose of spillage as indicated in section 13.

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 industrial hygiene practices.

STORAGE

Store separated from: Alkalies. Reducing Agents. Do NOT use container made of: Carbon steel. Keep containers tightly closed. Protect from light, including direct sunrays. Store in tightly closed original container in a cool, dry well-ventilated place. Store in closed original container at temperatures between 15°C and 25°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

PROCESS CONDITIONS

Provide eyewash station.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

RESPIRATORY EQUIPMENT

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

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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. Gloves should be replaced immediately if signs of degradation are observed. It has been found that gloves made from rubber, neoprene or PVC provide short-term splash protection.

EYE PROTECTION

Wear approved safety goggles.

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 splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid	
COLOR	Light (or pale) Yellow	
SOLUBILITY	Soluble in water	
BOILING POINT (°C)	100 - 102	pH-VALUE, CONC. SOLUTION < 2
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.

HAZARDOUS POLYMERISATION

Not noted.

MATERIALS TO AVOID

Strong alkalis. Strong oxidising substances.

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)

TOXIC DOSE 2 - LD 50 >2000 mg/kg (skin rat)

TOXICOLOGICAL INFORMATION

Ames Test negative

INHALATION

No specific health warnings noted.

INGESTION

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.

12 ECOLOGICAL INFORMATION

LC 50, 96 hrs, Fish mg/l >100

EC 50, 48 hrs, Daphnia, mg/l >100

IC 50, 72 hrs, Algae, mg/l 64

DEGRADABILITY

Not readily biodegradable

Belclene 440**13 DISPOSAL CONSIDERATIONS****WASTE MANAGEMENT**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

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

TDG SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains Derivative of Acrylic Acid copolymer)		
DOT PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains derivative of acrylic acid copolymer)		
TDG SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains Derivative of Acrylic Acid copolymer)		
IDENTIFICATION No.	3265	DOT HAZARD CLASS	8
TDG PACKING GROUP	III	U.S DOT HAZARD LABEL	Corrosive
UN NO. SEA	3265	IMDG CLASS	8
IMDG PACK GR.	III	EMS	F-A, S-B
MARINE POLLUTANT	No.	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 of Acrylic Acid Copolymer	DSL	Yes	EINECS	N/A	N/A	N/A	N/A	N/A

COMPONENT	TSCA 12(b) Export Notification
Derivative of Acrylic Acid Copolymer	No

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
Derivative of Acrylic Acid Copolymer			No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
Derivative of Acrylic Acid Copolymer	No

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
Derivative of Acrylic Acid Copolymer		No	No	No	No	No	No	No

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REGULATORY STATUS (US)

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. 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.

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.

CONTROLLED PRODUCT CLASSIFICATION

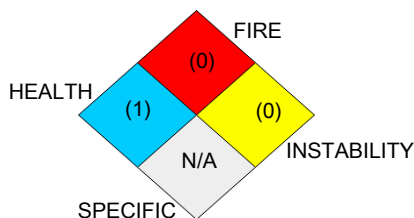
Canadian WHMIS Classification D2B

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



GENERAL INFORMATION

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

REVISION COMMENTS

This is first issue.

ISSUED BY

G.B.

REVISION DATE 18th June 2008

VERSION No. 2

SAFETY DATA SHEET STATUS

Approved.

DATE 18th June 2008

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.