



MATERIAL SAFETY DATA SHEET

BELCLENE 200

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

PRODUCT NAME BELCLENE 200
CHEMICAL NAME Polymaleic acid
PRODUCT NO. 100159, 100162, 100163, 100164, 100160, 101302
PRODUCT USE Scale 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. UN 3265

2 HAZARDS IDENTIFICATION

HUMAN HEALTH

See section 11 for additional information on health hazards.

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 Sensitiser

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

No specific health warnings noted.

ROUTE OF ENTRY

Skin and/or eye contact.

TARGET ORGANS

Eyes Skin

MEDICAL SYMPTOMS

Eye contact may cause: Visual disturbances, incl. blurred vision.

CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
POLYMALEIC ACID		26099-09-2	30-60%

CAS-NO. 26099-09-2

BELCLENE 200

COMPOSITION COMMENTS

Aqueous solution of polymaleic acid

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with 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 eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

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).

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

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

HANDLING

Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid eating, drinking and smoking when using the product. Observe good chemical hygiene practices.

STORAGE

Protect against physical damage and/or friction. Keep in original container. Store in tightly closed original container in a dry and cool place. Store away from: Alkalies. Reducing Agents. Do NOT use container made of: Carbon steel. Store away from strong oxidising agents.

STORAGE CLASS

Corrosive storage.

BELCLENE 200

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

HYGIENE MEASURES

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Change work clothing daily if there is any possibility of contamination.

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	Amber.
ODOR	Slight odor.
PHYSICAL DATA	Information given concerns the concentrated solution.
COMMENTS	
SOLUBILITY	Miscible with water
BOILING POINT (°C)	100 - 102
MELTING POINT (°C)	<-5
RELATIVE DENSITY	1.16 - 1.19 20 °C
pH-VALUE, CONC.	<2
SOLUTION	
VISCOSITY	10 - 25 cSt 25 °C
PARTITION COEFFICIENT (N-Octanol/Water)	0.73

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

BELCLENE 200

CONDITIONS TO AVOID

Reacts with alkalis and generates heat.

MATERIALS TO AVOID

Strong alkalis. Strong oxidizing substances. Strong reducing agents. Strong nitrites Strong sulphites

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 12500 mg/kg (oral rat)

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 Sensitiser

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

No specific health warnings noted.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

MEDICAL SYMPTOMS

Eye contact may cause: Visual disturbances, incl. blurred vision.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 580

EC 50, 48 Hrs, DAPHNIA, mg/l >1000

BIOACCUMULATION

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

13 DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT

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

Waste is suitable for incineration.

Only experts should be permitted to carry out disposal of this material.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



TDG SHIPPING NAME

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Polymaleic acid.)

BELCLENE 200

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT No.
IDENTIFICATION No. UN 3265
DOT HAZARD CLASS 8
DOT 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 PACK GR. III
TDG PACKING GROUP III

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
MALEIC ACID	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.
POLYMALEIC ACID	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.

COMPONENT	TSCA 12(b) Export Notification
POLYMALEIC ACID	N/A.

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPC	CERCLA-RQ	SARA 313
MALEIC ACID		5 000 lbs	No.
POLYMALEIC ACID		5 000 lbs	N/A.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
POLYMALEIC ACID	No

US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
MALEIC ACID	110-16-7	No	No	Yes.	No	Yes.	Yes.	No
POLYMALEIC ACID	26099-09-2	No	No	No	No	No	No	No

SARA (311/312) HAZARD CATEGORIES

None.

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.

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY

BELCLENE 200



Corrosive Material.



Materials Causing Other
Toxic Effects.

CONTROLLED PRODUCT CLASSIFICATION

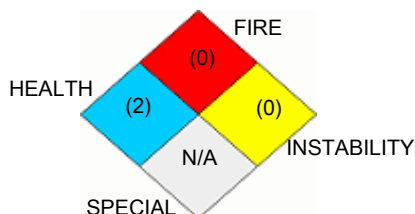
Canadian WHMIS Classification E D2B

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		2
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)

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 13/06/2012

VERSION No. 3

SDS NO. 10749

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.