

**SAFETY DATA SHEET**

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

**GLB CLEAR BLUE**

Version 1.1

Revision Date 2019.02.20

Print Date 2019.10.10

**SECTION 1. IDENTIFICATION**

Product name : GLB CLEAR BLUE

**Manufacturer or supplier's details**Company : Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004  
United States of America (USA)

E-mail address : sds@lonza.com

Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,  
CHEMTREC WORLD-WIDE: +1-703-527-3887.**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA.

**GHS label elements**

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

**Hazardous components**

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Poly(diallyldimethylammonium chloride)	26062-79-3	2.5 - 3.5

**SECTION 4. FIRST AID MEASURES**If inhaled : IF INHALED: Remove individual to fresh air.  
Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

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| In case of skin contact                                     | : | IF ON SKIN: Flush skin with water for 15 minutes.<br>Take off all contaminated clothing immediately.<br>Seek medical attention if irritation develops. |
| In case of eye contact                                      | : | IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.                                    |
| If swallowed  | : | IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.    |
| Most important symptoms and effects, both acute and delayed | : | None known.  |
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### SECTION 5. FIREFIGHTING MEASURES

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| Suitable extinguishing media         | : | Not Applicable. - Choose extinguishing media suitable for surrounding materials.  |
| Specific hazards during firefighting | : | Material may be ignited only if preheated to high temperatures, for example in a fire.  |
| Further information                  | : | In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.<br>Use water to cool containers. |
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : | Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.<br>Remove all sources of ignition.<br>Stop source of spill as soon as possible and notify appropriate personnel.<br>Utilize emergency response personal protection equipment prior to the start of any response.<br>Evacuate all non-essential personnel.<br>Dispose of spill residues per guidelines under Section 13, Disposal Consideration. |
| Environmental precautions   | : | If the product contaminates rivers and lakes or drains inform respective authorities.   |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Do not flush into surface water or sanitary sewer system.  |
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### SECTION 7. HANDLING AND STORAGE

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Advice on safe handling	: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.
Conditions for safe storage	: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not store at temperatures below: 40 Deg. F (4.4 Deg. C)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Additional ventilation beyond that of general exhaust is not normally required. No exposure limits exist for the constituents of this product.

#### Personal protective equipment

Respiratory protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Hand protection

Remarks : Wear impervious gloves to avoid skin contact.

Eye protection : Use safety glasses with side shields.

Skin and body protection : Impervious

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: clear
Colour	: blue
Odour	: mild amine
Odour Threshold	: no data available
pH	: 2 - 3
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: no data available
Flash point	: no data available
Evaporation rate	: < 1.0
Flammability (solid, gas)	: Combustible above 93 deg. C / 200 deg. F.
Flammability (liquids)	: no data available

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Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.0 - 1.1
Density	:	no data available
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Oxidizing properties	:	no data available

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### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Sparks, open flame, other ignition sources, and elevated temperatures. Avoid freezing.
Incompatible materials	:	Strong oxidizing agents Strong bases
Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide Oxides of nitrogen Hydrogen chloride

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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : This product will not exert a significant adverse effect to health from any route of exposure.

#### Acute toxicity

Acute oral toxicity	:	LD50 (Rat): Believed to be > 5,000 mg/kg
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD50 (Rabbit): Believed to be > 2,000 mg/kg

#### Skin corrosion/irritation

Remarks: Not expected to be irritating to the skin.

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### Serious eye damage/eye irritation

Remarks: Contact would be expected to cause transient redness if not washed out and left in the eye for an extended period of time.

### Respiratory or skin sensitisation

Remarks: This product has not been tested. However based on similar structured materials, this product is not expected to cause allergic skin sensitization.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### Further information

Remarks: no data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There is no data available for this product.

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.  
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### DOT

: Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

#### TDG

: Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

#### IATA

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

#### IMDG

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

#### ADR

: Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

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RID : Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hypochlorite	7681-52-9	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

##### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

##### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Sodium benzoate	532-32-1	0.1 - 1 %

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This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ (lbs)
Sodium hypochlorite	7681-52-9	100
Sodium hydroxide	1310-73-2	1000

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Components	CAS-No.	Concentration
Sodium hypochlorite	7681-52-9	0.0001 - 0.001 %
Sodium hydroxide	1310-73-2	0.0001 - 0.001 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

No components are subject to the Pennsylvania Right to know act

#### New Jersey Right To Know

Components	CAS-No.
Poly(diallyldimethylammonium chloride)	26062-79-3
Hydroxyethyl cellulose	9004-62-0

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Canadian lists

#### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

#### The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations



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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Date format : yyyy/mm/dd

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