

## Safety data sheet

according to 1907/2006/EC

Printing date: 29.08.2016

Revision: 29.08.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

- Trade name: **Ever-Clear**
- Product code: EVERCLEAR
- CAS number:  
52-51-7
- EC number:  
200-143-0
- Index number:  
603-085-00-8
- Registration number 01-2119980938-15-XXXX

#### · 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Application of the substance / the mixture: Water treatment
- Uses advised against: No further relevant information available.

#### · 1.3 Details of the supplier of the Safety Data Sheet

- Manufacturer/Supplier:  
Quality Lab Accessories LLC  
2840 Clymer Ave.  
Telford, PA 18969  
USA  
908-685-7500  
info@qla-llc.com

#### · 1.4 Emergency telephone number:

ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

##### · Classification according to Regulation (EC) No 1272/2008

|                   |      |  |
|-------------------|------|--|
| Acute Tox. 4      | H302 | Harmful if swallowed.                            |
| Acute Tox. 4      | H312 | Harmful in contact with skin.                    |
| Skin Irrit. 2     | H315 | Causes skin irritation.                          |
| Eye Dam. 1        | H318 | Causes serious eye damage.                       |
| STOT SE 3         | H335 | May cause respiratory irritation.                |
| Aquatic Acute 1   | H400 | Very toxic to aquatic life.                      |
| Aquatic Chronic 2 | H411 | Toxic to aquatic life with long lasting effects. |

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#### · 2.2 Label elements

##### · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS05 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

bronopol (INN)

· **Hazard statements**

H302+H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust.

P280 Wear protective gloves/protective clothing/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

· **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

52-51-7 bronopol (INN)

· **Identification number(s)**

· **EC number:** 200-143-0

· **Index number:** 603-085-00-8

· **Additional information:** Registration number: 01-2119980938-15-XXXX

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

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- **After skin contact:**  
Brush off loose particles from skin.  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment.
- **After eye contact:**  
Protect unharmed eye.  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Coughing  
May cause respiratory irritation.  
Irritant to skin and mucous membranes.  
Irritant to eyes.  
Breathing difficulty  
Gastric or intestinal disorders when ingested.  
Nausea in case of ingestion.
- **Hazards:**  
Causes serious eye damage.  
Harmful if swallowed.  
Danger of convulsion.  
May be harmful in contact with skin.  
May be harmful if inhaled.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Treat symptomatically.  
If necessary oxygen respiration treatment.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
May pose a dust explosion hazard if dispersed in air. Avoid ignition sources. Do not smoke.  
Self-heating in large quantities; may catch fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

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### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid formation of dust.  
Do not breathe dust.

#### · 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

#### · 6.3 Methods and material for containment and cleaning up

Clean up spills immediately, observing the precautions in the personal protective equipment of Section 8.  
Avoid generating dust. Prevent product from entering any drains, sewers or water sources.  
Send for recovery or disposal in suitable receptacles.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Use only in well ventilated areas.  
Open and handle receptacle with care.  
Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.  
Avoid breathing dust.  
Avoid contact with the eyes and skin.  
Keep out of reach of children.

#### · Information about fire - and explosion protection:

Avoid dust cloud formation. Keep ignition sources away. No smoking.  
Protect from heat.  
Dust can combine with air to form an explosive mixture.

#### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product.  
Storage area should be dry and well-ventilated.  
Avoid storage near extreme heat, ignition sources or open flame.  
Protect from humidity and water.

##### · Information about storage in one common storage facility:

Store away from foodstuffs.  
Store away from oxidising agents.

##### · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Clean skin thoroughly immediately after handling the product.
- Use only in well ventilated areas.
- Keep ignition sources away - Do not smoke.
- Do not breathe dust.

· **Respiratory protection:**

- Suitable respiratory protective device recommended.
- Particulate mask should filter at least 99% of airborne particles.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:** Avoid release to the environment.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

- **Form:** Crystalline
- **Colour:** Off-white.
- **Odour:** Odourless

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|   |   |
|---|---|
| · <b>Odour threshold:</b>                                 | Not determined.                                       |
| · <b>pH-value (10 g/l) at 23 °C:</b>                      | 4,5-7   |
| · <b>Melting point/Melting range:</b>                     | 99,7 °C   |
| · <b>Boiling point/Boiling range:</b>                     | Not determined.                                       |
| · <b>Flash point:</b>                                     | Not applicable.                                       |
| · <b>Flammability (solid, gaseous):</b>                   | May form combustible dust concentrations in air.      |
| · <b>Auto/Self-ignition temperature:</b>                  | Not determined.                                       |
| · <b>Decomposition temperature:</b>                       | Not determined.                                       |
| · <b>Danger of explosion:</b>                             | Can pose a dust explosion hazard if dispersed in air. |
| · <b>Explosion limits</b><br><b>Lower:</b>                | Not determined.                                       |
| <b>Upper:</b>   | Not determined.                                       |
| · <b>Oxidising properties</b>                             | Non-oxidising.  |
| · <b>Vapour pressure at 25 °C:</b>                        | 0,0001 mbar   |
| · <b>Density at 20 °C:</b>                                | 1,9 g/cm <sup>3</sup>                                 |
| · <b>Relative density at 20 °C:</b>                       | 1,905   |
| · <b>Vapour density:</b>                                  | Not applicable.                                       |
| · <b>Evaporation rate:</b>                                | Not applicable.                                       |
| · <b>Solubility in / Miscibility with water at 23 °C:</b> | 280 g/l   |
| · <b>Partition coefficient (n-octanol/water):</b>         | 0,18 log POW  |
| · <b>Viscosity</b><br><b>Dynamic:</b>                     | Not applicable.                                       |
| <b>Kinematic:</b>   | Not applicable.                                       |
| · <b>9.2 Other information</b>                            | No further relevant information available.            |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
 No decomposition if used and stored according to specifications.  
 To avoid thermal decomposition do not overheat.  
 Avoid open flame, ignition sources, contact with incompatible substances.  
 May form combustible dust concentrations in air.
- **10.3 Possibility of hazardous reactions**  
 Risk of dust explosion.  
 Reacts with alkali (lyes).  
 Reacts with oxidising agents.

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- **10.4 Conditions to avoid**  
Excessive heat.  
Sources of ignition, open flame, incompatible materials.  
Moisture.
- **10.5 Incompatible materials**  
Oxidisers  
Alkalis
- **10.6 Hazardous decomposition products**  
Nitrogen oxides  
Hydrogen bromide  
Bromine compounds

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**  
Harmful if swallowed or in contact with skin.

- **LD/LC50 values relevant for classification:**

**52-51-7 bronopol (INN)**

|            |         |                   |
|------------|---------|-------------------|
| Oral       | LD50    | 254 mg/kg (rat)   |
| Dermal     | LD50    | >2000 mg/kg (rat) |
| Inhalative | LC50/4h | ≥0,588 mg/l (rat) |

- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes skin irritation.
- **Serious eye damage/irritation:**  
Causes serious eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

- **IARC (International Agency for Research on Cancer):**

Substance is not listed.

- **Probable routes of exposure:**

Ingestion.  
Inhalation  
Eye contact.  
Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:**  
May cause respiratory irritation.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**52-51-7 bronopol (INN)**

|      |                     |
|------|---------------------|
| EC50 | 1,4 mg/kg (daphnia) |
|------|---------------------|

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for algae

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **DOT, ADR, IMDG, IATA**

UN3241

· **14.2 UN proper shipping name**

· **DOT, IATA**

2-Bromo-2-nitropropane-1,3-diol

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|               |   |
|---------------|---|
| · <b>ADR</b>  | 2-BROMO-2-NITROPROPANE-1,3-DIOL,<br>ENVIRONMENTALLY HAZARDOUS |
| · <b>IMDG</b> | 2-BROMO-2-NITROPROPANE-1,3-DIOL, MARINE<br>POLLUTANT          |

· **14.3 Transport hazard class(es)**

· **DOT**



· **Class** 4.1

· **Label** 4.1

· **ADR**



· **Class** 4.1 (SR1)

· **Label** 4.1

· **IMDG**



· **Class** 4.1

· **Label** 4.1

· **IATA**



· **Class** 4.1

· **Label** 4.1

· **14.4 Packing group**

· **DOT, ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** Yes  
Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable solids, self - reactive substances

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- **Danger code (Kemler):** -
- **EMS Number:** 4.1-05

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 kg.

Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

· **ADR**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 kg.

- **Transport category** 3
- **Tunnel restriction code** D

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 kg.

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0,5 kg (10 kg net).

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Carcinogenic Categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** Substance is not listed.

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**· Other regulations, limitations and prohibitive regulations****· Substances of very high concern (SVHC) according to REACH, Article 57**

Substance is not listed.

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

LDLo: Lowest Lethal Dose Observed

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**· Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com