

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 08/29/2016

Revision: 08/29/2016

1 Identification

- **Product identifier**
- **Trade name:** Ever-Clear
- **Product code:** EVERCLEAR
- **CAS Number:**
52-51-7
- **Recommended use and restriction on use**
- **Recommended use:** Water treatment
- **Restrictions on use:** No relevant information available.
- **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
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**

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.
Combustible Dust		May form combustible dust concentrations in air.

- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**




GHS05 GHS07

- **Signal word:** Danger
- **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.
May form combustible dust concentrations in air.

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· Precautionary statements:

- P261 Avoid breathing dust.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- 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.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition/information on ingredients

· Chemical characterization: Substances

- CAS No. Description**
- 52-51-7 bronopol (INN)

4 First-aid measures

· 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.
- 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; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed:**
Coughing
May cause respiratory irritation.

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Irritant to skin and mucous membranes.
Irritant to eyes.
Breathing difficulty
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.

· **Danger:**

Causes serious eye damage.
Harmful if swallowed.
Danger of convulsion.
May be harmful in contact with skin.
May be harmful if inhaled.

· **Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.
If necessary oxygen respiration treatment.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water stream.

· **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.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

· **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.

· **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.

· **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.

· **Reference to other sections:**

See Section 7 for information on safe handling.

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

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7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

- Use only in well ventilated areas.
- Open and handle receptacle with care.
- Prevent formation of dust.
- Any deposit of dust which cannot be avoided must be regularly removed.
- Avoid breathing dust.
- Avoid contact with the eyes and skin.
- Keep out of reach of children.

- **Information about protection against explosions and fires:**

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

- **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 oxidizing agents.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

- **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components 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.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- The usual precautionary measures for handling chemicals should be followed.
- 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.

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- Use only in well ventilated areas.
- Keep ignition sources away - Do not smoke.
- Do not breathe dust.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
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.

9 Physical and chemical properties

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

· **Appearance:**

Form: Crystalline

Color: Off-white.

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value (10 g/l) at 23 °C (73 °F):** 4.5-7

· **Melting point/Melting range:** 99.7 °C (211 °F)

· **Boiling point/Boiling range:** Not determined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May form combustible dust concentrations in air.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Can pose a dust explosion hazard if dispersed in air.

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure at 25 °C (77 °F):** 0.0001 mbar

· **Density at 20 °C (68 °F):** 1.9 g/cm³ (15.856 lbs/gal)

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- **Relative density at 20 °C (68 °F):** 1.905
 - **Vapor density:** Not applicable.
 - **Evaporation rate:** Not applicable.
-
- **Solubility in / Miscibility with Water at 23 °C (73 °F):** 280 g/l
-
- **Partition coefficient (n-octanol/water):** 0.18 log POW
-
- **Viscosity**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
 - **Other information** No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **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.
- **Possibility of hazardous reactions:**
 Risk of dust explosion.
 Reacts with alkali (lyes).
 Reacts with oxidizing agents.
- **Conditions to avoid:**
 Excessive heat.
 Sources of ignition, open flame, incompatible materials.
 Moisture.
- **Incompatible materials:**
 Oxidizers
 Alkalis
- **Hazardous decomposition products:**
 Nitrogen oxides
 Hydrogen bromide
 Bromine compounds

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

52-51-7 bronopol (INN)

Oral	LD50	254 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	≥0.588 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.

· **Carcinogenic categories**

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

Substance is not listed.

· **NTP (National Toxicology Program):**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

Substance is not listed.

· **Probable route(s) of exposure:**

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.

- **STOT-single exposure:** May cause respiratory irritation.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity**
Toxic to aquatic life with long lasting effects.

52-51-7 bronopol (INN)

EC50 | 1.4 mg/kg (daphnia)

- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Ecotoxic 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.
- **Other adverse effects:** No relevant information available.

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13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger 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 packagings**

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

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

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN3241

· **UN proper shipping name**

· **DOT, IATA** 2-Bromo-2-nitropropane-1,3-diol
 · **ADR** 2-BROMO-2-NITROPROPANE-1,3-DIOL,
 ENVIRONMENTALLY HAZARDOUS
 · **IMDG** 2-BROMO-2-NITROPROPANE-1,3-DIOL, MARINE
 POLLUTANT

· **Transport hazard class(es)**

· **DOT**



· **Class** 4.1

· **Label** 4.1

· **ADR**



· **Class** 4.1 (SR1)

· **Label** 4.1

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· **IMDG**



· **Class** 4.1
 · **Label** 4.1

· **IATA**



· **Class** 4.1
 · **Label** 4.1

· **Packing group**
 · **DOT, ADR, IMDG, IATA** III

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

· **Special precautions for user** Warning: Flammable solids, self-reactive substances

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

· **Transport in bulk according to Annex II of MARPOL73/78 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.

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· **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).

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

Substance is not listed.

· **Section 304 (emergency release notification):**

Substance is not listed.

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is listed.

· **TSCA (Toxic Substances Control Act)**

Substance is listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

Substance is not listed.

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

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

Substance is not listed.

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.

· **Date of preparation / last revision** 08/29/2016 / -

· **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 Harmonized System of Classification and Labelling of Chemicals
 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
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 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

· **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: 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

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