

Section 1. Chemical product and company identification

Trade name : QC 52 GLASS CLEANER
 Product use : Glass Cleaner
 Supplier : Ecolab Inc.
 370 N. Wabasha St.
 St. Paul, MN 55102
 1-800-352-5326

Code : 901571-01

Date of issue : 19-July-2007

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

| Name | CAS number | % by weight |
|------------------------|------------|-------------|
| 2-butoxyethanol | 111-76-2 | 20 |
| 2-propanol, 1-propoxy- | 1569-01-3 | 5 - 20 |

Section 3. Hazards identification

Physical state : Liquid. [Liquid]
 Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOR.
 MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
 HARMFUL IF SWALLOWED. MAY BE FATAL IF SWALLOWED. Aspiration hazard if swallowed. Can enter lungs and cause damage.
 Can cause central nervous system (CNS) depression.
 Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.
 Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
 Skin : Moderately irritating to the skin.
 Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
 Ingestion : Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause nausea, weakness and central nervous system effects.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point : 25.5556 °C (Closed cup)
 Fire-fighting media and instructions : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Dike liquid for later disposal.
 Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash thoroughly after handling.
Storage : Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
 Store between the following temperatures: 0 and 40°C

Section 8. Exposure controls, personal protection

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protection:

Eyes : Eye protection recommended.
 Hands : Use chemical-resistant, impervious gloves.
 Skin : No protective equipment is needed under normal use conditions.
 Respiratory : Avoid breathing vapors, spray or mists.

Exposure limits

propan-2-ol
ACGIH TLV (United States, 1/2004). Notes: ACGIH 2003 Adoption Refers to Appendix A – Carcinogens.
 STEL: 400 ppm 15 minute(s). Form: All forms
 TWA: 200 ppm 8 hour(s). Form: All forms
OSHA PEL (United States, 8/1997).
 TWA: 980 mg/m³ 8 hour(s). Form: All forms
 TWA: 400 ppm 8 hour(s). Form: All forms
ACGIH TLV (United States, 1/2004). Notes: 2002 Adoption.
 TWA: 20 ppm 8 hour(s). Form: All forms
OSHA PEL (United States, 8/1997).
 TWA: 240 mg/m³ 8 hour(s). Form: All forms

2-butoxyethanol

TWA: 50 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid [Liquid]
 Color : Blue.
 Odor : Alcohol-like.
 pH : 7.65 [Conc. (% w/w): 100%]
 Specific gravity : 0.916
 Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to eyes.
 Skin : Moderately irritating to the skin.
 Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
 Ingestion : Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause nausea, weakness and central nervous system effects.
Potential chronic health effects
 Chronic effects on humans : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, central nervous system (CNS).

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
 Waste classification : Unused product is D001 (Ignitable)
 Consult your local or regional authorities.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|------------------------|-----------|--|-------|---------------|------------------------|
| DOT Classification | UN1993 | Flammable liquids, n.o.s. (Isopropanol, Propylene glycol n-propyl ether) | 3 | III | Not available. |

APPLIES ONLY DURING ROAD TRANSPORT
 Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Flammable liquid
 Initiating material
 Target organ effects
 U.S. Federal regulations : SARFA 302/304/311/312 extremely hazardous substances. No products were found.
 TSCA 8(b) inventory : SARFA 302/304 emergency planning and notification: No products were found.
 SARFA 313 : All materials are listed or exempt.
 Form R - Reporting requirements : 2-butoxyethanol
 California Prop. 65 : No products were found.
Concentration
 20

Section 16. Other information

Hazardous Material Information System (U.S.A.) :



Date of issue : 19-July-2007.
 Responsible name : Regulatory Affairs
 Date of previous issue : 24-May-2007.
Notice to reader
 The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**