

# Material Safety Data Sheet

QC 52 GLASS CLEANER



## 1. Product and company identification

Trade name of product : QC 52 GLASS CLEANER

Product use : Glass Cleaner

Product dilution information : Up to 6.4 oz/gal or 50 mL/L in water

Supplier's information : Ecolab Inc.  
370 N. Wabasha St.  
St. Paul, MN 55102  
1-800-352-5326

Code : 901571-01

Date of issue : 17-May-2011

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## 2. Hazards identification

### Product AS SOLD

Physical state : Liquid.

Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOR.  
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
Can cause central nervous system (CNS) depression.  
Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from heat, sparks and flame. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

### Product AT USE DILUTION

Liquid.

CAUTION !

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly after handling.

### Potential acute health effects

#### Product AS SOLD

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 : May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

#### Product AT USE DILUTION

Slightly irritating to the eyes.

Slightly irritating to the skin.

Slightly irritating to the respiratory system.

No known significant effects or critical hazards.

See toxicological information (section 11)

## 3. Composition/information on ingredients

### Product AS SOLD

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
BUTOXYETHANOL	111-76-2	20
ISOPROPYL ALCOHOL	67-63-0	20 - 50
PROPYLENE GLYCOL PROPYL ETHER	1569-01-3	5 - 20

### 3. Composition/information on ingredients

#### Product AT USE DILUTION

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
ISOPROPYL ALCOHOL	67-63-0	1 - 5

### 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.	Rinse with water for a few minutes.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	Rinse with water for a few minutes.
<b>Inhalation</b>	: If inhaled, remove to fresh air.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	Get medical attention if symptoms occur.

### 5. Fire-fighting measures

#### Product AS SOLD

<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Fire-fighting media and instructions</b>	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.  Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff. Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required. Eliminate all ignition sources. Do not touch or walk through spilled material.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## 7. Handling and storage

	<b>Product AS SOLD</b> <b>Handling</b> : Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	<b>Product AT USE DILUTION</b> Avoid contact with eyes. Wash thoroughly after handling.
	<b>Storage</b> : Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Store in a closed container. 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	Keep out of reach of children. Store in a closed container.

## 8. Exposure controls/personal protection

	<b>Product AS SOLD</b> <b>Engineering measures</b> : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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.	<b>Product AT USE DILUTION</b> Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eyes</b>	: Safety eyewear should be used when there is a likelihood of exposure.	No protective equipment is needed under normal use conditions.
<b>Hands</b>	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Skin</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory</b>	: Avoid breathing vapors, spray or mists.	No special protection is required.

Ingredient	Exposure limits
ISOPROPYL ALCOHOL	<b>ACGIH TLV (United States, 2/2010).</b> STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s). <b>OSHA PEL (United States, 6/2010).</b> TWA: 980 mg/m <sup>3</sup> 8 hour(s). TWA: 400 ppm 8 hour(s).
BUTOXYETHANOL	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 20 ppm 8 hour(s). <b>OSHA PEL (United States, 6/2010). Absorbed through skin.</b> TWA: 240 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).

## 9. Physical and chemical properties

	<b>Product AS SOLD</b> <b>Physical state</b> : Liquid. <b>Flash point</b> : 26 °C (Closed cup) <b>Color</b> : Blue <b>Odor</b> : Alcohol-like <b>pH</b> : 7.65 [Conc. (% w/w): 100%] <b>Relative density</b> : 0.916	<b>Product AT USE DILUTION</b> Liquid. > 100°C Blue [Light] Alcohol-like 6 to 8
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## 9. Physical and chemical properties

**Solubility** : Easily soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

### Product AS SOLD

**Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Potential acute health effects

**Product AS SOLD**

**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** : May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

### Product AT USE DILUTION

Slightly irritating to the eyes.

Slightly irritating to the skin.

Slightly irritating to the respiratory system.

No known significant effects or critical hazards.

### Product AS SOLD

### Other adverse effects

**Target organs** : Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, central nervous system (CNS).

## 12. Ecological information

**Ecotoxicity** : Not reported

## 13. Disposal considerations

**Product AS SOLD**

**Waste disposal** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D001 (Ignitable)

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### Product AS SOLD

**DOT Classification** UN1993

**DOT Proper shipping name** Flammable liquids, n.o.s. (ISOPROPANOL, Propylene glycol n-propyl ether)

**Class** 3

**Packing group** III

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

## 14. Transport information

### Product AT USE DILUTION

Not intended for transport.

## 15. Regulatory information

### Product AS SOLD

HCS : Flammable liquid  
 Classification Irritating material  
 Target organ effects

### Product AS SOLD

#### U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

#### SARA 313

#### Product name

#### CAS number

#### Concentration

Form R - Reporting : 2-butoxyethanol  
 requirements

111-76-2 19.93

California Prop. 65 : No listed substance

### Product AT USE DILUTION

Target organ effects

## 16. Other information

### Product AS SOLD

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

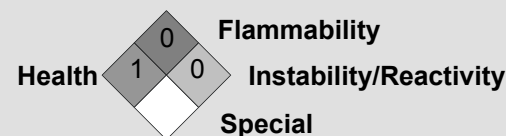
Health	*	1
Flammability		3
Physical hazards		0

National Fire Protection :  
 Association (U.S.A.)



### Product AT USE DILUTION

Health	*	1
Flammability		0
Physical hazards		0



Date of issue : 17-May-2011

Responsible name : Regulatory Affairs  
 1-800-352-5326

Indicates information that has changed from previously issued version.

Notice to reader

## 16. Other information

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.



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