54-61166884

Material Safety Data Sheet



QC 91 ACID BATHROOM CLEANER

Section 1. Chemical product and company identification

Trade name

: QC 91 ACID BATHROOM CLEANER

Product use

Cleaning product

Supplier

: Ecolab Co.

5105 Tomken Road Mississauga ON L4W 2X5

1-800-352-5326

Code

: 903544

Date of issue

05-September-2008

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

<u>Name</u>	CAS number 9	6 by weight
phosphoric acid	7664-38-2	15 - 40
2-(2-butoxyethoxy)ethanol	112-34-5	10 - 30
citric acid	77-92-9	10 - 30
alcohols, c10-14, ethoxylated	66455-15-0	7 - 13
amines, coco alkyldimethyl, n-oxides	61788-90-7	0.5 - 1.5

Section 3. Hazards identification

Physical state

: Liquid. [Liquid.]

Emergency overview

: DANGER!

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

CAUSES RESPIRATORY TRACT IRRITATION.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapours, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after

Routes of entry

: Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes Skin : Corrosive to eyes.

: Corrosive to the skin.

Inhalation

: Irritating to respiratory system.

Ingestion

: Causes burns to mouth, throat and stomach.

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

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Inhalation

: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or

oxygen applied by trained personnel. Get medical attention if irritation persists.

Ingestion

: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious

person. Get medical attention immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature

: Not available.

Flash point

: > 100°C

Flammable limits

Hazardous thermal decomposition products Not available.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

phosphorus oxides metal oxide/oxides

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may

burst.

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

Risk of explosion of the product in the presence of mechanical impact: Not available. Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal precautions Environmental : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through split material.

: Avoid dispersal of spilt 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

precautions

: If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

Storage

Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.

Store between the following temperatures: 10 and 50°C

Section 8. Exposure controls/personal protection

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection:

Eyes

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the

Hands

: Use chemical-resistant, impervious gloves.

Skin

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory

: Avoid breathing vapours, spray or mists.

Name

Exposure limits

QC 91 ACID BATHROOM CLEANER

Page: 3/5

phosphoric acid CA Alberta Provincial (Canada, 10/2006).

8 hrs OEL: 1 mg/m3 8 hour(s). 15 min OEL: 3 mg/m3 15 minute(s).

CA British Columbia Provincial (Canada, 7/2007).

STEL: 3 mg/m3 15 minute(s). TWA: 1 mg/m3 8 hour(s).

CA Ontario Provincial (Canada, 3/2007).

STEV: 3 mg/m³ 15 minute(s). TWAEV: 1 mg/m3 8 hour(s).

CA Quebec Provincial (Canada, 12/2006).

STEV: 3 mg/m3 15 minute(s). TWAEV: 1 mg/m3 8 hour(s).

ACGIH TLV (United States, 1/2008).

STEL: 3 mg/m³ 15 minute(s). TWA: 1 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.] Colour Green. [Dark] Odour

Fragrance-like. : 0.1 [Conc. (% w/w): 100%]

Boiling/condensation point : Not available. Melting/freezing point : Not available. Relative density : 1.264

Vapour pressure Not available. Vapour density Not available. Odour threshold : Not available. : Not available. Evaporation rate LogK_{ow} : Not available.

Section 10. Stability and reactivity

: The product is stable. Under normal conditions of storage and use, hazardous Stability

polymerisation will not occur.

Conditions of instability

Reactivity : Reactive or incompatible with the following materials: alkalis.

: Not available.

Incompatible with chlorinated solvents.

Do not mix with bleach or other chlorinated products - will cause chlorine gas. Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products

products should not be produced.

Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not

occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes. Skin Corrosive to the skin.

Inhalation : Irritating to respiratory system.

: Causes burns to mouth, throat and stomach. Ingestion

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

Ingredient name **ACGIH IARC** <u>NTP</u> **OSHA** Not applicable.

Mutagenic effects
Teratogenic effects
Reproductive effects
Sensitization to Product

No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Synergistic products (toxicologically)

: Not available.

Toxicity data

I OXICITY GATA				
Ingredient name	<u>Test</u>	Route	Result	Species
phosphoric acid	LD50	Dermal	2740 mg/kg	Rabbit
	LD50	Oral	1.25 gm/kg	Mouse
	LD50	Oral	1.25 gm/kg	Rat
	LD50	Ora!	1530 mg/kg	Rat
	LC50	Inhalation	>850 mg/m3	Rat
citric acid	LD50	Oral	5040 mg/kg	Mouse
	LD50	Oral	3 gm/kg	Rat
	LD50	Oral	7280 mg/kg	Mouse
	LDLo	Oral	7 gm/kg	Rabbit
2-(2-butoxyethoxy)ethanol	LD50	Dermal	2700 mg/kg	Rabbit
	LD50	Ora!	6050 mg/kg	Mouse
	LD50	Orał	5660 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Mouse
	LD50	Oral	2400 mg/kg	Mouse
	LD50	Oral	6050 mg/kg	Rat
amines, coco alkyldimethyl, n-oxides	LD50	Oral	>2000 mg/kg	Rat

Target organs

: Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver, upper respiratory tract.

Section 12. Ecological information

Ecotoxicity			
<u>Ingredient name</u>	Species	<u>Period</u>	<u>Result</u>
2-(2-butoxyethoxy)ethanol	Fish	96 hours	Acute LC50 1300 mg/L
amines, coco alkyldimethyl, n-oxides	Daphnia	48 hours	Acute EC50 8 mg/L
	Daphnia	48 hours	Acute EC50 4.4 mg/L
	Algae	72 hours	Acute EC50 <1 mg/L
	Algae	72 hours	Acute EC50 0.8 mg/L
	Fish	96 hours	Acute LC50 14 mg/L
	Fish	96 hours	Acute LC50 10 to 100
			mg/L

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt 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.

Consult your local or regional authorities.

Section 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.

UN Classification

UN number

UN1805

Proper shipping name

PHOSPHORIC ACID, SOLUTION

Class

8

Packing group

-III

See shipping documents for specific transportation information.

Section 15. Regulatory information

WHMIS

: Class E: Corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other information

Date of issue

: 05-September-2008.

Responsible name

: Regulatory Affairs

1-800-352-5326

Date of previous issue

: 19-September-2005.

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.