

Material Safety Data Sheet

ECOLAB

AQUA POWER

Section 1. Chemical product and company identification

Trade name : AQUA POWER
Product use : Cleaning product
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code : 939611
Date of issue : 21-March-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

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> |
|--|-------------------|--------------------|
| triphosphoric acid, pentasodium salt | 7758-29-4 | 15 - 40 |
| sodium carbonate | 497-19-8 | 15 - 40 |
| disodium metasilicate | 6834-92-0 | 10 - 30 |
| benzenesulfonic acid, dodecyl-, compd. with 2,2'-iminobis[ethanol] (1:1) | 26545-53-9 | 1 - 5 |
| sodium dodecylbenzene sulfonate | 25155-30-0 | 1 - 5 |
| 2-cyclohexene-1-octanoic acid, 5(or 6)-carboxy-4-hexyl-ethanol | 53980-88-4 | 1 - 5 |
| | 64-17-5 | 0.1 - 1 |

Section 3. Hazards identification

Physical state : Solid. [Powder.]
Emergency overview : DANGER!
CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe dust.
Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Ingestion, Inhalation

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Harmful if swallowed. 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 immediately.

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

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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. Get medical attention immediately.

Section 5. Fire-fighting measures

| | |
|---|---|
| Auto-ignition temperature | : Not available. |
| Flash point | : > 100°C |
| Flammable limits | |
| Upper: | Not available. |
| Lower: | Not available. |
| Products of combustion | : Not available. |
| Fire-fighting media and instructions | : Use an extinguishing agent suitable for the surrounding fire. Dyke liquid for later disposal. No specific 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. |
| 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 | : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses. |
| Environmental precautions | : 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 | : If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal. |

Section 7. Handling and storage

| | |
|-----------------|--|
| Handling | : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling. |
| Storage | : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above the following temperature: 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 eyewash and safety shower in area if contact or splash hazard exists. |
| Personal protection : | |
| Eyes | : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles. |
| Hands | : Use chemical-resistant, impervious gloves. |
| Skin | : Use synthetic apron, other protective equipment as necessary to prevent skin contact. |
| Respiratory | : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded. |

Name
ethanol

Exposure limits

ACGIH TLV (United States, 1/2006).

TWA: 1880 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Section 9. Physical and chemical properties

| | |
|----------------------------|---|
| Physical state | : Solid. [Powder.] |
| Colour | : Pale colour. |
| Odour | : Odourless. |
| pH | : 12.5 [Conc. (% w/w): 1%] |
| Boiling/condensation point | : Not available. |
| Melting/freezing point | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Odour threshold | : Not available. |
| Evaporation rate | : Not applicable. |
| LogK _{ow} | : Not available. |
| Solubility | : Partially soluble in cold water, hot water. |

Section 10. Stability and reactivity

| | |
|----------------------------------|--|
| Stability | : The product is stable. |
| Conditions of instability | : Not available. |
| Reactivity | : Reactive with acids. Slightly reactive to reactive with metals. |
| Hazardous Decomposition Products | : Not available. |

Section 11. Toxicological information

Potential acute health effects

| | |
|----------------------|--|
| Eyes | : Corrosive to eyes. |
| Skin | : Corrosive to the skin. |
| Inhalation | : Corrosive to the respiratory system. |
| Ingestion | : Harmful if swallowed. Causes burns to mouth, throat and stomach. |
| Irritancy of Product | : Hazardous by WHMIS criteria. |

Potential chronic health effects

| | |
|--|---|
| Carcinogenic effects | : No known significant effects or critical hazards. |
| Mutagenic effects | : No known significant effects or critical hazards. |
| Teratogenic effects | : No known significant effects or critical hazards. |
| Reproductive effects | : No known significant effects or critical hazards. |
| Sensitization to Product | : No known significant effects or critical hazards. |
| Synergistic products (toxicologically) | : Not available. |

Toxicity data

| <u>Ingredient name</u> | <u>Test</u> | <u>Route</u> | <u>Result</u> | <u>Species</u> |
|--------------------------------------|-------------|--------------|---------------|----------------|
| triphosphoric acid, pentasodium salt | LD50 | Dermal | >4640 mg/kg | Rabbit |
| | LD50 | Oral | 3120 mg/kg | Rat |
| | LD50 | Oral | 3100 mg/kg | Mouse |
| | LC50 | Inhalation | 0.39 mg/L | Rat |
| sodium carbonate | LD50 | Dermal | >2000 mg/kg | Rabbit |
| | LD50 | Oral | 6600 mg/kg | Mouse |
| | LD50 | Oral | 4090 mg/kg | Rat |
| | LD50 | Oral | 6600 mg/kg | Mouse |
| | LDLo | Oral | 714 mg/kg | Man - Male |
| disodium metasilicate | LD50 | Oral | 770 mg/kg | Mouse |
| | LD50 | Oral | 1153 mg/kg | Rat |
| | LDLo | Oral | 250 mg/kg | Pig |
| | LDLo | Oral | 250 mg/kg | Dog |
| ethanol | LD50 | Oral | 7 g/kg | Rat |
| | LD50 | Oral | 6300 mg/kg | Rabbit |
| | LD50 | Oral | 3450 mg/kg | Mouse |
| | LD50 | Oral | 7060 mg/kg | Rat |
| sodium dodecylbenzene sulfonate | LD50 | Oral | 438 mg/kg | Rat |

LD50 Oral 1330 mg/kg Mouse

Target organs : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, stomach.

Section 12. Ecological information

Ecotoxicity

| <u>Ingredient name</u> | <u>Species</u> | <u>Period</u> | <u>Result</u> |
|--------------------------------------|----------------|---------------|-----------------------|
| triphosphoric acid, pentasodium salt | Daphnia | 48 hours | Acute EC50 >100 mg/L |
| | Fish | 96 hours | Acute LC50 >100 mg/L |
| | Fish | 96 hours | Acute LC50 >1600 mg/L |
| sodium carbonate | Daphnia | 48 hours | Acute EC50 347 mg/L |
| | Fish | 96 hours | Acute LC50 740 mg/L |
| | Fish | 96 hours | Acute LC50 <850 mg/L |
| | Fish | 96 hours | Acute LC50 320 mg/L |
| | Fish | 96 hours | Acute LC50 300 mg/L |
| disodium metasilicate | Daphnia | 48 hours | Acute EC50 4857 mg/L |
| | Fish | 96 hours | Acute LC50 3185 mg/L |
| | Fish | 96 hours | Acute LC50 2320 mg/L |
| ethanol | Daphnia | 48 hours | Acute EC50 >100 mg/L |
| | Daphnia | 48 hours | Acute EC50 9.3 mg/L |
| | Daphnia | 48 hours | Acute EC50 2 mg/L |
| | Fish | 96 hours | Acute LC50 13000 mg/L |
| | Fish | 96 hours | Acute LC50 >100 mg/L |
| | Fish | 96 hours | Acute LC50 >100 mg/L |
| sodium dodecylbenzene sulfonate | Daphnia | 48 hours | Acute EC50 5.88 mg/L |
| | Fish | 96 hours | Acute LC50 6.5 mg/L |
| | Fish | 96 hours | Acute LC50 1.68 mg/L |
| | Fish | 96 hours | Acute LC50 1.18 mg/L |
| | Fish | 96 hours | Acute LC50 1.18 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

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|------------------------------|-----------|--|-------|---------------|--|
| TDG Classification | UN3262 | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate) | 8 | II | <p><u>Explosive Limit and Limited Quantity Index</u> 1</p> <p><u>Passenger Carrying Road or Rail Index</u> 15</p> <p><u>Special provisions</u> 16</p> |

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

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 : 21-March-2007.

Responsible name : Regulatory Affairs

Date of previous issue : 23-August-2006.

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.**