

Material Safety Data Sheet

ECOLAB

APEX POWER PLUS

Section 1. Chemical product and company identification

Trade name : APEX POWER PLUS
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 911109
Date of issue : 10-April-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	20
sodium carbonate	497-19-8	>50
phosphonic acid, (1-hydroxyethylidene)bis-, potassium salt	67953-76-8	5 - 20
alcohols, c12-14, ethoxylated propoxylated	68439-51-0	1 - 5
troclosene sodium, dihydrate	51580-86-0	1 - 5

Section 3. Hazards identification

Physical state : Solid. [Solid.]
Emergency overview : CAUTION!

MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Slightly irritating to the eyes.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

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 occurs.

Skin contact : Flush contaminated skin with plenty of water. Wash clothing before reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C

Products of combustion : Decomposition products may include the following materials: halogenated compounds, hydrogen chloride, chlorine.

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike 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.

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). It will result in little or no hazard if spilled.

Environmental precautions : Collect spillage. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : Collect spillage. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

Handling : Wash thoroughly after handling.

Storage : Keep out of the reach of children. 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 : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection :

Eyes : No protective equipment is needed under normal use conditions.

Hands : No protective equipment is needed under normal use conditions.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : A respirator is not needed under normal and intended conditions of product use.

Name

chlorine

Exposure limits

ACGIH TLV (United States, 1/2004).

STEL: 2.9 mg/m³ 15 minute(s). Form: All forms

STEL: 1 ppm 15 minute(s). Form: All forms

TWA: 1.5 mg/m³ 8 hour(s). Form: All forms

TWA: 0.5 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

CEIL: 3 mg/m³ Form: All forms

CEIL: 1 ppm Form: All forms

Section 9. Physical and chemical properties

Physical state : Solid. [Solid.]

Color : White.

Odor : chlorine

pH : 11.1 [Conc. (% w/w): 1%]

Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.

Reactivity : Slightly reactive to reactive with acids, alkalis.
Mixing this product with acid or ammonia releases chlorine gas.
Do not allow water to enter container.
Wet material may generate halogenated gas that may pressurize sealed containers.

Hazardous decomposition products : Decomposition products may include the following materials: halogenated compounds, hydrogen chloride, chlorine.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Slightly irritating to the eyes.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Collect spillage. 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
DOT Classification	Not regulated.	-	-	-	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** : Not regulated.
U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory : All materials are listed or exempt.
California Prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	1
	Flammability	0
	Physical hazards	0

- Date of issue** : 10-April-2007.
Responsible name : Regulatory Affairs
Date of previous issue : 07-February-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.