

Material Safety Data Sheet

APEX POWER PLUS



1. Product and company identification

Trade name of product : APEX POWER PLUS
Product use : Machine Warewashing Detergent

Product dilution information : Up to 3.3 oz/10 gal or 2.6 mL/L in water

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

Code : 913176-01

Date of issue : 18-July-2012

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 : Solid
Emergency overview : WARNING !
CAUSES EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Product AS SOLD
Eyes : Severely irritating to 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)

Product AT USE DILUTION

Liquid.
CAUTION !
No specific hazard.
No specific hazard.

Product AT USE DILUTION

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.

3. Composition/information on ingredients

Product AS SOLD

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> |
|--|-------------------|--------------------|
| SODIUM CARBONATE | 497-19-8 | >50 |
| SODIUM METASILICATE | 6834-92-0 | 1 - 5 |
| PPG-5-LAURETH-5 | 68439-51-0 | 1 - 5 |
| troclosene sodium, dihydrate | 51580-86-0 | 1 - 5 |
| phosphonic acid, (1-hydroxyethylidene)bis-, potassium salt | 67953-76-8 | 1 - 5 |

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

| | Product AS SOLD | Product AT USE DILUTION |
|---------------------|--|---|
| 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. | No known effect after eye contact. Rinse with water for a few minutes. |
| Skin contact | : No known effect after skin contact. Rinse with water for a few minutes. | No known effect after skin contact. Rinse with water for a few minutes. |
| Inhalation | : No special measures required. Treat symptomatically. | No special measures required. Treat symptomatically. |
| Ingestion | : Get medical attention if symptoms occur. | Get medical attention if symptoms occur. |

5. Fire-fighting measures

Product AS SOLD

Hazardous thermal decomposition products : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 nitrogen oxides
 phosphorus oxides
 halogenated compounds
 metal oxide/oxides

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

Dike area of fire to prevent runoff.
 No specific 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.

6. Accidental release measures

| | Product AS SOLD | Product AT USE DILUTION |
|----------------------------------|--|--|
| Personal precautions | : Use personal protective equipment as required. | Use personal protective equipment as required. |
| Environmental precautions | : 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. |
| Methods for cleaning up | : Use a water rinse for final clean-up. | Use a water rinse for final clean-up. |

7. Handling and storage

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------|--|---------------------------------|
| Handling | : Avoid contact with eyes. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. | Wash thoroughly after handling. |
| Storage | : Keep out of reach of children. Store in a closed container. Do not store above the following temperature: 50°C | Keep out of reach of children. |

8. Exposure controls/personal protection

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------------------|---|--|
| Engineering measures | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Personal protection | | |
| Eyes | : Wear eye protection. | No protective equipment is needed under normal use conditions. |
| Hands | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Skin | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Respiratory | : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded. | No special protection is required. |

| Ingredient | Exposure limits |
|------------|--|
| chlorine | ACGIH TLV (United States, 1/2008). STEL: 2.9 mg/m ³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.5 mg/m ³ 8 hour(s). TWA: 0.5 ppm 8 hour(s). OSHA PEL (United States, 11/2006). CEIL: 3 mg/m ³ CEIL: 1 ppm |

9. Physical and chemical properties

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------------|---|-------------------------|
| Physical state | : Solid | Liquid. |
| Flash point | : > 100°C Product does not support combustion. | > 100°C |
| Color | : White | Colorless |
| Odor | : chlorine | Odorless |
| pH | : 11 to 11.8 [Conc. (% w/w): 1%] | 10.79 to 10.91 |

10. Stability and reactivity

Product AS SOLD

| | |
|---|--|
| Stability | : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Reactivity | : Slightly reactive or incompatible with the following materials: acids, alkalis and moisture. Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas. |
| 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 : Severely irritating to 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.

Product AT USE DILUTION

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.

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.

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

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

HCS Classification : Irritating material

Product AT USE DILUTION

Not regulated.

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 requirements : No listed substance

California Prop. 65 : No listed substance

15. Regulatory information

16. Other information

Product AS SOLD

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

| | |
|------------------|---|
| Health | 2 |
| Flammability | 0 |
| Physical hazards | 0 |
| | |

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



Product AT USE DILUTION

| | |
|------------------|---|
| Health | 0 |
| Flammability | 0 |
| Physical hazards | 0 |
| | |

Date of issue : 18-July-2012
Responsible name : Regulatory Affairs
1-800-352-5326

☑ Indicates information that has changed from previously issued version.

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.