**Product Code:** **MSDS050**
**Product Name:** **POWER PLUS**
**ITEM CODES: PPLUS55GAL, 871381, 861646**

**24-hour Emergency Phone:** **(800) 535-5053**

HMIS CODES H F R P
3 0 0 X

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**DISTRIBUTED BY:** DAYCON PRODUCTS COMPANY, INC.
16001 TRADE ZONE AVE. UPPER
MARLBORO, MD 20774

**RECOMMENDED USE:** Heavy duty degreaser

## 2. HAZARDS IDENTIFICATION

Danger. Corrosive. Causes severe skin burns and eye damage. Irritating to the skin, eyes, and digestive system. May be harmful if swallowed. Long-term exposure may cause kidney and/or liver damage. May cause damage to organs through prolonged or repeated contact. May be an aspiration hazard if swallowed.

**Hazard Classification: Skin and Eye Category 1: Corrosive**
**Acute Toxicity Category 5**
**Aspiration Category 1**

**SIGNAL WORD: DANGER**

**HAZARD STATEMENTS:**
H314 Causes severe skin burns and eye damage.
H303 May be harmful if swallowed.

**PRECAUTIONARY STATEMENTS:**
P102 Keep out of reach of children.
P264 Wash thoroughly after handling.
P260 Do not breath mist or spray.
P280 Wear protective gloves, protective clothing, and eye protection.
P301/P310/P313/P330/P331 IF SWALLOWED: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse mouth. Do NOT induce vomiting.
P303/ P310/P313/P353/P361/P363 IF ON SKIN: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse skin with water or shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
P305/P310/P313/P351/P338 IF IN EYES: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance to local, regional, and national regulations.

**Potential Health Effects**

**EYE:**
Corrosive to eyes.

**SKIN:**
Causes skin irritation. May be corrosive to the skin.

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## INGESTION:

May cause nausea, vomiting and stomach irritation. This product if swallowed, can cause severe burns and tissue perforation. Low to moderately toxic. May cause headache, dizziness and gastrointestinal distress. Causes rapid damage to red blood cells and subsequent anemia. Repeated exposure may cause liver and kidney damage.

## INHALATION:

Prolonged inhalation may result in respiratory irritation. Under normal conditions, using adequate ventilation no problems are expected May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest. Severe overexpsure may cause red blood cell damage.

## CHRONIC (CANCER) INFORMATION:

Not listed by IARC or NTP as a carcinogen. Long term exposure via inhalation of concentrations of 2-butoxyethanol up to 125 ppm caused an increase of liver tumors in male mice. A slight increase in adrenal tumors was observed in female rats. The NTP has determined that 2-butoxyethanol displays some evidence of carcinogenicity in female rats.

The IARC has evaluated the material as an IARC Group 3 not classified as to carcinogenicity in humans, based on limited data in animals and inadequate data in humans.

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### TERATOLOGY (BIRTH DEFECT) INFORMATION:

Ethylene glycol, CAS # 107-21-1, is a reproductive and developmental toxicant when administered at high doses in experimental animals. A raw material in this product has caused birth defects in laboratory animals when ingested in high doses by pregnant animals.

### REPRODUCTION INFORMATION:

May damage rapidly reproducing cells.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component/Exposure Limits | CAS# | % by Wt. |
|---|---|---|
| * 2-butoxyethanol | 111-76-2 | 10 |
| ACGIH TWA: 20 ppm | | |
| OSHA TWA: 50 ppm; 240 mg/m3 | | |
| Sodium metasilicate | 6834-92-0 | <5.0 |
| Sodium tripolyphosphate | 7758-29-4 | <3.0 |
| * Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 1.0 |
| Ethylene Glycol | 107-21-1 | .05 |

## 4. FIRST AID MEASURES

### EYES:

IF IN EYES: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### SKIN:

IF ON SKIN: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse skin with water or shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

### INGESTION:

IF SWALLOWED: Immediately call a poison control center or doctor. Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Treat symptomatically. Get medical attention if symptoms continue.

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### INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

### NOTE TO PHYSICIANS:

In vitro results with human red blood cells suggest that humans are more resistant to the hemolytic effects of 2-butoxyethanol than laboratory test animals such as mice, rats, and rabbits. These results suggest that hemolysis and secondary effects observed in laboratory animals are unlikely to occur in humans except in extreme cases when exposure is severe and/or prolonged. Indictors for treatment and observation include metabolic acidosis, urinary excretion of 2-butoxy acetic acid (BAA), hemolysis, or hematurial. The material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**FLASH POINT: N/A** **Method: N/A**
Greater than 200F. Not flammable.

**FLAMMABLE LIMITS:**

**Lower flammable limit: N/A**
**Upper flammable limit: N/A**

### AUTOIGNITION TEMPERATURE:

No Information Available.

### HAZARDOUS COMBUSTION PRODUCTS:

NO INFORMATION AVAILABLE.

### EXTINGUISHING MEDIA:

For a SMALL fire, Use dry chemicals, $CO_2$, water spray or alcohol-resistant foam. For a LARGE fire, use water spray, water fog or alcohol resistant foam.

### FIREFIGHTING INSTRUCTIONS:

Vapors can travel to a source of ignition and flash back. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILL:

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Use appropriate containment to avoid run-off. Keep out of streams, sewers and waterways. Collect free material. Absorb remainder on inert absorbant. Wash area with plenty of water.

### LARGE SPILL:

If possible, clean up spill area on a dry basis and then flush with plenty of water. Absorb liquid with vermiculite, floor absorbent or other absorbent material. Keep out of sewer, streams, ponds, lakes, or other waterways.

## 7. HANDLING AND STORAGE

### HANDLING:

Keep out of reach of children. Wash thoroughly after handling.

### STORAGE:

Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended limits. Emergency showers and eyewash facilities should be in close proximity.

### RESPIRATORY PROTECTION:

If vapors are present, use NIOSH approved respirator or self contained breathing appratus.

### SKIN PROTECTION:

Impervious Such As Neoprene or nitrile.

### EYE PROTECTION:

Chemical splash goggles with side shields recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT: N/A**
**MELTING POINT: NO INFORMATION AVAILABLE.**
**VAPOR PRESSURE: NO INFORMATION AVAILABLE.**
**VAPOR DENSITY: (Air=1): >1**
**SOLUBILITY IN WATER: Soluble**
**SPECIFIC GRAVITY: 1.036**
**pH: 11.8-13.5 (as is)**
**ODOR: Strong butyl (2-butoxyethanol) odor.**

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**APPEARANCE: Clear green liquid.**

## 10. STABILITY AND REACTIVITY

### CHEMICAL STABILITY (CONDITIONS TO AVOID):

Stable.

### INCOMPATIBILITY:

Strong oxidizing agents, strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon, may be emitted if product burns.

### HAZARDOUS POLYMERIZATION:

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### EYE:

EGBE is irritating to the eyes.

### SKIN:

EGBE is a minimal hazard by skin contact with liquid or vapor. May be absorbed through the skin. High dermal doses of EGBE (most likely achieved from exposure to undiluted product) may cause weakness, headache, and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

### INGESTION:

May cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. Product may also be corrosive to the digestive system tissue.

### INHALATION:

Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches.

### SUBCHRONIC:

All components of this product are listed on the U. S. TOXIC SUBSTANCE CONTROL ACT (TSCA) Inventory or exemption has been granted in accordance with 40 CFR 723.50.

### CHRONIC/CARCINOGENICITY:

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Not classified as a carcinogen. Long term exposure via inhalation of concentrations of 2-butoxyethanol up to 125 ppm caused an increase of liver tumors in male mice. A slight increase in adrenal tumors was observed in female rats. The NTP has determined that 2-butoxyethanol displays some evidence of carcinogenicity in female rats. The IARC has evaluated the material as an IARC Group 3 not classified as to carcinogenicity in humans, based on limited data in animals and inadequate data in humans. ATE of product >2500 ppm.

### TERATOLOGY:

Ethylene glycol, CAS # 107-21-1, is a reproductive and developmental toxicant when administered at high doses in experimental animals.

### REPRODUCTION:

May cause toxicity to reproduction following repeated doses at generally high exposure concentrations based on animal test data. Selective reproductive toxicant to mice, but not rats. In mice reproductive effects were observed at dose levels higher than those causing developmental toxicity in mice or renal toxicity in rats.

### MUTAGENICITY:

Not mutagenic.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION:

In air, the photodegradation half-life of EGBE ranges from 16-27.5 hours. Does not undergo hydrolysis. In water, the volatilization half-life of EGBE from a model river and lake is estimated to be 25 days and 185 days, respectively. The estimated half-life in ground water ranges from 14 days to 8 weeks. In soil, the estimated half-life of EGBE ranges from 7 days to 4 weeks.
This material is expected to be readily biodegradable.
Low potential for bioaccumulation. BCF = 3.0 (estimated.)

### CHEMICAL FATE INFORMATION:

There is no data available on the product.

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance to local, regional, and national regulations.

## 14. TRANSPORT INFORMATION(Not meant to be all inclusive)

UN Number: UN3266
Class: 8
Packing Group: III
Proper Shipping Name: CORROSIVE, LIQUID, BASIC, INORGANIC

Limited Quantity Under 1.3 Gallons

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## 15. REGULATORY INFORMATION: (Not meant to be all inclusive - selected regulations represent

### U.S. FEDERAL REGULATIONS:

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) 29 CFR 1910.1200

### OSHA:

HAZCOM STANDARD

### CERCLA: SARA HAZARD CATEGORY:

Acute and chronic health hazard. Fire hazard.

#### SECTION 313:

This product contains 2-Butoxyethanol and Ethylene glycol, which are reportable under SARA Title III, Section 313 and 40 CFR 372.

### INTERNATIONAL REGULATIONS:

#### CANADIAN WHMIS:

Class E: Corrosive Liquid

#### CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

NO INFORMATION AVAILABLE.

#### EINECS:

NO INFORMATION AVAILABLE.

### STATE REGULATIONS:

2-Butoxyethanol and Ethylene glycol are regulated by California, Massachusetts, and Pennsylvania's Right-to-Know laws.

#### VOLATILE ORGANIC COMPOUNDS:

NO INFORMATION AVAILABLE.

## 16. OTHER INFORMATION

### SDS Status:

Compliant with OSHA's new GHS safety data sheet (SDS).

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**Information in this Safety Data Sheet (SDS) is based on sources other than direct test data and is given in good faith. No warranty is expressed or implied. We believe that the information is current as of the date of this SDS. The use of this information, the conditions, the methods of handling, storage, use and disposal of the product are not within the control of the manufacturer and distributor, therefore it is the user's responsibility and obligation to determine the conditions of the safe use of this product and to ensure that its activities comply with all laws and regulations.**