## **MATERIAL SAFETY DATA SHEET**

1. Product and Company Identification

Product number 866

Product name Maintenance Pro Germicidal Surface Cleaner

Effective date Dec 2015

Company information Advantage Marketing Associates

Paris, Ontario, Canada

Company phone General Assistance 1-800-265-9957

Emergency telephone US 800-424-9300 Emergency telephone outside US 703-527-3887 Version # 14.0

Supersedes date 10-Aug-2007

### 2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE.

Pressurized container may explode when exposed to heat or flame.

Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard

Communication).

Potential health effects

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin This product may be harmful if it is absorbed through the skin. Prolonged or repeated

contact can result in defatting and drying of the skin which may result in skin irritation and

dermatitis (rash).

Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

Target organs Kidney.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been

observed in humans.

Blood. Central nervous system. Liver. Respiratory system.

Chronic effects Conjunctiva. Liver injury may occur. Kidney injury may occur. May cause central nervous

system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental

confusion, and blurred vision) and/or damage. May cause delayed lung damage.

Signs and symptoms

Corneal damage. Narcosis. Liver enlargement. Conjunctivitis. Defatting of the skin.

Irritation.

#### 3. Composition / Information on Ingredients

Components	CAS#	Percent
2-Butoxyethanol	111-76-2	3 - 5
n-Butane	106-97-8	3 - 5
Non-hazardous and other components below reportable levels		> 90

#### 4. First Aid Measures

First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention

immediately.

**Skin contact** Wash off with warm water and soap. Get medical attention if irritation develops or

persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical Ingestion

advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

Notes to physician Symptoms may be delayed.

General advice Call a physician if symptoms develop or persist.

### 5. Fire Fighting Measures

Flammable properties

Extinguishing media

Containers may explode when heated.

Suitable extinguishing media

Large Fires: Water spray, fog or regular foam.

Small Fires: Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### 6. Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel

away.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the

leak is irreparable.

Methods for cleaning up Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated

surface thoroughly.

#### 7. Handling and Storage

Handling Pressurized container: Do not pierce or burn, even after use. Do not handle or store near

an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with

eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Storage Level 1 Aerosol.

> Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

#### **Exposure limits**

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A	CG	iΗ

Components	CAS#	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling

# Components

2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established

**Engineering controls** 

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear chemical goggles. Skin protection Protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

General hygeine considerations When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in

accordance with good industrial hygiene and safety practice.

### 9. Physical & Chemical Properties

AppearanceNot availableColorPale yellowOdorfruityPhysical stateLiquid.FormAerosol.

Flammability (HOC) 2.83 kJ/g estimated

Flash back No.

**Pressure** 46 - 56 psig @70F

**Solubility** Partially

Flash point -156 °F (-104.4 °C) estimated Boiling point 213.8 °F (101.1 °C) estimated

**Specific gravity** 0.9789 estimated pH 11.76 - 12.76

## 10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Stable at normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products May include oxides of oxides of carbon.

### 11. Toxicological Information

Acute effects Acute LD50: 8605 mg/kg estimated, Rat, Oral

Acute LD50: 4536 mg/kg estimated, Rat, Dermal Acute LC50: 40 mg/l/4h estimated, Rat, Inhalation

**Sensitization** Not expected to be hazardous by OSHA criteria.

**Local effects**Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion.

Components of the product may be absorbed into the body through the skin.

Chronic effects Hazardous by OSHA criteria. This product may be harmful if it is absorbed through the

skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure

may cause chronic effects.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Subchronic effects Kidney injury may occur. Blood disorder may occur after prolonged inhalation. Blood

disorder may occur after prolonged skin contact.

**Neurological effects** Hazardous by OSHA criteria.

MutagenicityNot expected to be hazardous by OSHA criteria.Reproductive effectsNot expected to be hazardous by OSHA criteria.TeratogenicityNot expected to be hazardous by OSHA criteria.

**Epidemiology** Hazardous by OSHA criteria.

#### 12. Ecological Information

**Ecotoxicity** LC50 1098 mg/L estimated, Fish, 96.00 Hours,

EC50 42929 mg/L estimated, Daphnia, 48.00 Hours, IC50 86.05 mg/L estimated, Algae, 72.00 Hours,

Components of this product have been identified as having potential environmental concerns.

#### 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

### 14. Transport Information

#### **Department of Transportation (DOT) Requirements**

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class ORM-D Subsidiary hazard class None

Additional information:

Packaging exceptions156, 306Packaging non bulk156, 306Packaging bulkNone

#### **IMDG**

Basic shipping requirements:

Proper shipping name AEROSOLS, flammable

Hazard class2.1UN number1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels required2.1Transport Category2

#### IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class2.1UN number1950

Additional information:

Packaging exceptions LTD QTY





#### 15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely N

hazardous substance

Section 311 hazardous chemical Yes

## Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethanol 111-76-2 Present n-Butane 106-97-8 Present

#### 16. Other Information

HMIS® ratings Health: 1\*

Flammability: 2 Physical hazard: 0 Personal protection: X

Prepared by Regulatory Compliance

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knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified

in the text.

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