#### **Material Safety Data Sheet MSDS**

### 1. IDENTIFICATION

Manufacturer:

Zero Toys, Inc.

TEL: 978-371-3378 FAX: 978-371-3379

23B Bradford St.

Product Name:

Super Zero Fog Fluid

Concord, MA. 01742

**Product Use:** 

Water-based fog fluid used in the following products:

a) Zero Blaster b) Zero Launcher

c) All Zero Fog Producing Toys

**Product** 

Ingredients:

High purity food grade, kosher USP propylene glycol, glycerin,

and distilled water.

## 2. PHYSICAL DATA

**Boiling Point:** 

212 - 480° F. (100-249° C)

Melting Point:

Not Applicable (N/A)

Specific Gravity:

1.075 @ 68° F. / 20° C  $(\mathbf{H_2O}=1)$ 

Vapor Pressure:

< .025 mm HgAir = 14.1

Vapor Density: Solubility in Water:

Complete

Specific Gravity

1,079 @ 68° F. /20° C  $(\mathbf{H_2O}=1)$ 

**Evaporation Rate:** 

No data

Appearance and Odor:

Clear. Unscented.

# 3. FIRE AND EXPLOSION HAZARD DATA

Flammability:

Nonflammable

Flash Point

> 325.4° F. (162° C)

Auto ignition Temp.

Not detectable

Flammable limits in

air (% by volume)

Not determined

Extinguishing media:

Water, foam, dry chemicals, carbon dioxide

Unusual Fire and

explosion bazards:

None

#### 4. INGREDIENTS

Super Zero Fog Fluid is a mixture of food grade kosher USP ingredients, consisting of glycerine, propylene glycol and distilled water. According to OSHA (1910.1200) this product is non-hazardous.

## 5. REACTIVITY HAZARD DATA

Chemical Stability:

Stable, does not polymerize. Also, does not react

violently with: air, water, heat.

Incompatibility Materials: Hazardous Decomposition

Strong oxidizing agents.

Products:

With strong oxidizing agent: acetic acid, aldehydes, ketones, carbon dioxide and / or carbon monoxide.

## 6. TOXICOLOGICAL PROPERTIES

Finding:

The primary ingredients in Super Zero Fog Fluid, in small amounts, possess minimal to no toxicity and are

commonly used in foods, drugs and cosmetics.

Root of Entry:

Ingestion, eyes, skin, inhalation.

### **Effects of Overexposure**

Ingestion:

No evidence of adverse effect for low dose.

Eyes:

May cause slight transient eye irritation, seen as slight

redness of the conjunctiva.

Skin:

Essentially non-irritating to the skin. May cause minimal irritation of areas exposed to liquid. Skin

sensitization - none.

Inhalation:

A single prolonged (hours) exposure is not likely to cause adverse effects. Fog may cause asthmatic

reactions in highly sensitive individuals.

Carcinogenicity:

None

Teratogenicity:

None

(Reproductive Effects)

Mutagenicity:

None

# 7. EMERGENCY FIRST AID PROCEDURES

Eyes:

Flush with water for several minutes, keeping eyelids

open

Skin:

Rinse with water.

Ingestion:

Drink plenty of water.

Inhalation:

Bring person to fresh air if discomfort arises.

# 8. PREPARATION INFORMATION

Date:

May 15, 2003

Prepared by:

Zero Toys, Inc.

Information compiled from: Dr. James R. Beall, Ph.D.

in Toxicological Services.

Independent Report #STR 6121.8623

and MSDS reports from chemical manufacturers

of similar and/or same ingredients.