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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ghost Dye™ UV 450  
Catalog Number: 13-0868  
Brand: Tonbo Biosciences  
Supplier: Tonbo Biosciences  
6335 Ferris Square, Suite A  
San Diego, CA 92121  
USA  
Telephone: +1 (855) 848-6626 toll-free  
Fax: +1 (858) 888-7301  
Emergency Phone: +1 (858) 888-7300  
Preparation Information: Tonbo Biosciences Product Safety  
+1 (855) 848-6626 toll-free

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## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

This product contains no hazardous constituents or the concentration of all chemical constituents are below the regulatory thresholds under OSHA regulations.

This product contains no hazardous constituents or the concentration of all chemical constituents are below the regulatory thresholds according to the Globally Harmonized System (GHS)

### HMIS Classification

Health Hazard:	1
Chronic Health Hazard:	0
Flammability:	2
Physical Hazards:	1

### NFPA Rating

Health Hazard:	1
Fire:	1
Reactivity Hazard:	0

### Potential Health Effects

#### Inhalation

Potentially causes respiratory tract irritation.

#### Skin

Irritating to skin. Components may be absorbed into the body through the skin.

**Eyes**  
**Ingestion**

Potentially irritating to eyes.  
Potentially toxic if swallowed.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Dimethylsulfoxide      CAS number 67-68-5

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### 4. FIRST AID MEASURES

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen and consult a physician.

**In case of skin contact**

Wash off immediately with soap and plenty of water, remove any contaminated clothing, and consult a physician.

**In case of eye contact**

Flush eyes with water for at least 15 minutes and consult a physician.

**If swallowed**

Rinse mouth with water and consult a physician immediately.

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### 5. FIREFIGHTING MEASURES

**Conditions of flammability**

Flammable liquid.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self contained breathing apparatus and protective clothing for fire fighting.

**Hazardous combustion products**

Carbon oxides, nitrogen oxides

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Avoid breathing vapors, mist or gas.

**Environmental precautions**

Avoid spillage or leakage. Prevent product from entering drains or sewer systems.

**Methods and materials for containment and cleaning up**

Use a damp mop or sponge to clean up spill and surrounding area. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Special requirement: Light sensitive - prolonged exposure to light could result in decreased product performance.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Safety Data Sheet

Version 1.3 - Revision Date 10/31/2018

## Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

General industrial hygiene practice including washing thoroughly after handling and washing contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Color	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

## 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

No data available.

### **Conditions to avoid**

Prolonged light exposure may affect product performance or quality.

### **Materials to avoid**

Acid chlorides, strong acids, strong oxidizing agents, reducing agents.

### **Hazardous decomposition products**

Carbon oxides, sulphur oxides

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## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Oral LD50**

#### **Inhalation LC50**

No data available

### **Dermal LD50**

#### **Other information on acute toxicity**

No data available

### **Skin corrosion/irritation**

Skin irritant. Components may be absorbed into the body through the skin.

### **Serious eye damage/eye irritation**

Eye irritant.

### **Respiratory or skin sensitization**

Potentially harmful in contact with skin and may be harmful by inhalation.

### **Germ cell mutagenicity**

[www.tonbobio.com](http://www.tonbobio.com)

No data available

### **Carcinogenicity**

- IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

May impair fertility and may cause harm to unborn child.

### **Teratogenicity**

No data available

### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

### **Aspiration hazard**

No data available

### **Potential health effects**

- |                   |  |
|-------------------|--|
| <b>Inhalation</b> | Potentially harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Ingestion</b>  | Potentially toxic if swallowed.  |
| <b>Skin</b>       | Potentially harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes</b>       | Irritant to eyes.  |

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Synergistic effects**

No data available

### **Additional Information**

RTECS: Not available

## 12. ECOLOGICAL INFORMATION

### **Toxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **PBT and vPvB assessment**

No data available

### **Other adverse effects**

No data available

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## 13. DISPOSAL CONSIDERATIONS

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of product in accordance with federal, state and local regulations.

### **Contaminated packaging**

Dispose of as unused product in accordance with federal, state and local regulations.

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## 14. TRANSPORT INFORMATION

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

## 15. REGULATORY INFORMATION

### OSHA Hazards

No known OSHA hazards

### SARA 302 Components

No components in the material are subject to reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

No SARA Hazards

**Reportable Quantity**    lowest RQ > 999999 lbs  
    lowest RQ > 999999 lbs

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dimethylsulfoxide	67-68-5	2007-07-01

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dimethylsulfoxide	67-68-5	

### New Jersey Right To Know Components

	CAS-No.	Revision Date
Dimethylsulfoxide	67-68-5	

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



## 16. OTHER INFORMATION

### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Tonbo Biosciences and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.tonbobio.com](http://www.tonbobio.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.