



Revision Date: 24-Mar-2021

PT-P-2937

# SAFETY DATA SHEET

Version 1

## Biocide

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Biocide

**Product code** PT-P-2937 (Biocide)

**Product Use** System cleaner.

**Distributed in the USA by**  
Direct Color Systems  
99 Hammer Mill Rd.  
Rocky Hill, CT 06067-USA

**Company Phone Number** 860-829-2244

**Emergency Telephone**    **Emergency telephone number US:** 24/7 CHEMTREC 1-800-424-9300  
**Emergency telephone number International:** 24/7 CHEMTREC +1 703-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

#### GHS Label elements, including precautionary statements

Warning

**Hazard Statements**

Causes serious eye irritation

May cause an allergic skin reaction

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

**Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

**Storage**

Not applicable

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not classified

**Other hazards**

Causes mild skin irritation

Toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-5%
BROMINATED NITROPARAFFIN	52-51-7	1-5%
ISOTHIAZOLIN DERIVATIVE	55965-84-9	0.1-1%

**4. FIRST AID MEASURES****First aid measures for different exposure routes****General advice**

If symptoms persist, call a physician.

<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment.

**Most important symptoms/effects, acute and delayed**

May cause redness, itching, and pain. May cause allergic skin reaction.

**Indication of immediate medical attention and special treatment needed, if necessary**

May cause sensitization of susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None known.

**Specific hazards arising from the chemical**

May cause sensitization by skin contact.

**Hazardous Combustion Products**

Carbon oxides. Nitrogen oxides (NOx).

**Explosion Data**

**Sensitivity to Mechanical Impact** none

**Sensitivity to Static Discharge** none

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

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

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Use personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
ETHYLENE GLYCOL MONOBUTYL ETHER	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>	

### Exposure controls

**Engineering Measures** Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection** Wear protective gloves/clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	pale, Blue	<b>Odor</b>	Mild
<b>Odor Threshold</b>	Not available	<b>Physical State @20°C</b>	Liquid
<b>pH</b>	6.00 - 7.00	<b>Molecular Weight</b>	Not available
<b>Specific Gravity</b>	0.995 - 1.010	<b>Autoignition temperature</b>	Not available
<b>Flash point</b>	> 201 °F / 94 °C	<b>Boiling point / boiling range</b>	212 - 232 °F / 100 - 111 °C
<b>Decomposition temperature</b>	Not available	<b>Freezing Point</b>	Not available
<b>Melting point / melting range</b>	Not available		
<b>Flammability Limit in Air</b>	Not available		

<b>Oxidizing Properties</b>	Not available	<b>Explosive Property Details</b>	Not available
<b>Solubility</b>	Miscible with water	<b>Partition coefficient</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor density</b>	Not available	<b>Density</b>	Not available
<b>VOC (lb/gal)</b>	0.29	<b>VOC (g/l)</b>	34.79
<b>Dynamic viscosity</b>	Not available		

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under recommended storage conditions

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Excessive heat. Freezing.

### Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous Decomposition Products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

#### Acute toxicity

##### Inhalation

Inhalation of vapors in high concentration may cause irritation of respiratory system.

##### Eyes

Irritating to eyes. May cause redness and tearing.

##### Skin

Causes mild skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

##### Ingestion

Ingestion may cause stomach discomfort.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
ETHYLENE GLYCOL MONOBUTYL ETHER	= 470 mg/kg ( Rat )	400 mg/kg ( Rabbit ) 2270 mg/kg ( Rat )	= 450 ppm ( Rat ) 4 h
BROMINATED NITROPARAFFIN	180 - 400 mg/kg ( Rat )	= 1600 mg/kg ( Rat )	> 5 g/m <sup>3</sup> ( Rat ) 6 h = 800 mg/m <sup>3</sup> ( Rat ) 4 h
ISOTHIAZOLIN DERIVATIVE	= 53 mg/kg ( Rat )		

### Information on toxicological effects

No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Irritation</b>	Irritating to eyes. Mild skin irritant.
<b>Corrosivity</b>	No information available.
<b>Sensitization</b>	May cause sensitization by skin contact.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Carcinogenicity</b>	None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHYLENE GLYCOL MONOBUTYL ETHER	A3	Group 3		

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Eyes, Skin, Respiratory system, Central nervous system (CNS), Kidney, Liver.

**Aspiration hazard** No information available.

#### **Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	7947 mg/kg
ATEmix (dermal)	20822 mg/kg mg/l
ATEmix (inhalation-dust/mist)	39.4 mg/l

ATE: Acute toxicity estimate

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Toxic to aquatic life

### **Persistence and degradability**

No information available.

### **Bioaccumulation**

Chemical Name	Octanol Water Partition Coefficient (log pow)
ETHYLENE GLYCOL MONOBUTYL ETHER	0.81

### **Mobility**

No information available.

### **Other adverse effects**

No information available

## **13. DISPOSAL CONSIDERATIONS**

### **Waste Disposal Methods**

Dispose of in accordance with local regulations.

### **Contaminated packaging**

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG</u></b>	Not regulated
<b><u>ADR/RID</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## 15. REGULATORY INFORMATION

### **International Inventories**

<b>TSCA</b>	Yes
<b>DSL/NDL</b>	Yes
<b>PICCS</b>	Yes
<b>EINECS/ELINCS</b>	No
<b>ENCS</b>	No
<b>IECSC</b>	Yes
<b>KECL</b>	Yes
<b>AICS</b>	No

**\*Yes - All component(s) of this product are included or are exempt from listing on the inventory.**

**\*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### **U.S. Federal Regulations**

#### **TSCA Sections 4, 5 and 12(b)**

This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No	SARA 313 - Threshold Values %	Weight-%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.0	1-5%

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
ETHYLENE GLYCOL MONOBUTYL ETHER	X	X	X	X	X

**International Regulations****Canada - NDSL**

This product does not contain any NDSL chemicals.

**Mexico - Grade**

Slight risk, Grade 1

**Mexico - Carcinogen Status and Exposure Limits**

Chemical Name	Carcinogen Status	Exposure Limits
ETHYLENE GLYCOL MONOBUTYL ETHER		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 360 mg/m <sup>3</sup>

**Other Regulations**

No information available

<b>16. OTHER INFORMATION</b>
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NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection B

**Distributed By** Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA

**Revision Date** 24-Mar-2021

**Revision Note** No information available

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our 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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