



# Safety Data Sheet

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Creation Date: 2-Jan-2021

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Revision Number: 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### **1.1. Product identifier**

**Product Description:** HEXAGIENE

Product ID: HEXAG

Common Name: Chemical Mixture

Chemical Name: Chemical Mixture

Formula: Chemical Mixture

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use Industrial Disinfectant

Uses advised against Not Available

### **1.3. Details of the supplier of the safety data sheet**

Company Quip Laboratories, Inc.

1500 Eastlawn Avenue

Wilmington, DE 19802

E-mail address thidell@quiplabs.com

### **1.4. Emergency telephone number**

For information US call: 001-302-761-2600

Emergency Number CHEMTREC Tel. No.US:001-800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA.

### 2.2. Label elements

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA. Based on available data, the classification criteria are not met. Handle in accordance with good industrial hygiene and safety practice. Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA.

#### Precautionary Statements

- P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P262 – Do not get in eyes, on skin or on clothing.
- P270 – Do not eat, drink, or smoke when using this product
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P314 - Get medical advice/ attention if you feel unwell.
- P402 + P404 Store in a dry place. Store in a closed container.
- P410 + P403 Protect from sunlight. Store in a well-ventilated place.
- P501 – Dispose of contents/container in accordance with local regulations

### 2.3. Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS No.
2-(2-Butoxyethoxy)ethanol	5.0 – 10.0	112-34-5
Methanesulphonic acid	1.0 – 2.5	75-75-2
2-Phenoxyethanol	1.0 – 3.0	122-99-6
Hydrogen peroxide	1.0 – 2.5	7722-84-1
Alcohols, C12-14-secondary, ethoxylated	1.0 – 2.5	84133-50-6
Orthosphosphoric acid	0.3 – 0.5	7664-38-2

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Eye Contact</b>	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist
<b>Skin Contact</b>	Wash with water and soap as a precaution. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If unconscious, place in recovery position and seek medical advice.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination

### 4.2. Most important symptoms and effects, both acute and delayed

No information available

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media:**

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

**Extinguishing media which must not be used for safety reasons:**

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No information available.

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### **5.2. Special hazards arising from the substance or mixture**

No information available.

#### **Hazardous Combustion Products:**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

### **6.2. Environmental precautions**

Should not be released into the environment.

### **6.3. Methods and material for containment and cleaning up**

Neutralize with chalk, alkali solution or ammonia. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

No special precautions required.

**7.2. Conditions for safe storage, including any incompatibilities**

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

**7.3. Specific end use(s)**

Use in industrial applications

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Exposure limits**

List source(s):

**Biological limit values:**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Component	STD	TWA		STEL		Notes

WEL = Workplace Exposure Limit

**Ingredient Comments**

STEL = Short Term Exposure

TWA = Time Weighted Average

**8.2. Exposure controls**

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice

**Engineering Measures:** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**

**Eye Protection:** Safety glasses.

**Hand Protection:** Protective gloves. Break through time: > 480 min

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure

<b>Respiratory Protection:</b>	No personal respiratory protective equipment normally required.
<b>Hygiene Measures:</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls :</b>	No information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear, colorless
<b>Physical State</b>	Liquid
<b>Odor</b>	Slight Odor
<b>Odor Threshold</b>	No data available
<b>pH (undiluted)</b>	1.0 – 1.2
<b>Melting Point/Range</b>	No data available
<b>Softening Point</b>	No data available
<b>Boiling Point/Range</b>	Greater than 220°F
<b>Flash Point</b>	210.6°F
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid,gas)</b>	No information available.
<b>Explosion Limits</b>	No data available.
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity / Density</b>	1.01 – 1.02
<b>Bulk Density</b>	No data available
<b>Water Solubility</b>	Soluble
<b>Solubility in other solvents</b>	No information available.
<b>Partition Coefficient (n- octanol/water)</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties Oxidizing Properties</b>	No data available

### 9.2. Other information

Molecular Formula	Not Available
Molecular Weight	Not Available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Chemical stability

Stable under normal conditions.

### 10.2. Possibility of hazardous reactions

**Hazardous Polymerization:**

Hazardous polymerization does not occur.

**Hazardous Reactions:**

None under normal processing.

### 10.3. Materials to avoid

None known.

### 10.4. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.5. Hazardous decomposition products

No decomposition if used as directed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met

Dermal Based on available data, the classification criteria are not met

Inhalation Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hexagiene	>5000 mg/kg (Rat)	>5000 mg/kg	> 2.52 mg/l (Rat)

(b) skin corrosion/irritation; No skin corrosion

(c) serious eye damage/irritation; No eye irritation

(d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

(e) germ cell mutagenicity;

Based on available data, the classification criteria are not met

(f) carcinogenicity;

Based on available data, the classification criteria are not met

	There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	Based on available data, the classification criteria are not met
(h) STOT-single exposure;	Based on available data, the classification criteria are not met
(i) STOT-repeated exposure;	Based on available data, the classification criteria are not met
Target Organs	Skin, Respiratory system, Eyes
(j) aspiration hazard;	No aspiration toxicity classification

Other Adverse Effects No data available

Symptoms / effects, both acute and delayed No information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Hexagiene	N. Av.	N. Av.	N. Av.	N. Av.

### 12.2. Persistence and degradability

Persistence:

Product is biodegradable  
Soluble in water, Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

### 12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. No data available.

### 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative And toxic (PBT) / very persistent and very Bioaccumulative (vPvB).

### 12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant

This product does not contain any known or suspected substance



Ozone Depletion Potential

This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation/treatment procedure. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

Not regulated

- |  |                |
|--|----------------|
| <u>14.1. UN number:</u>                  | Not regulated  |
| <u>14.2. Proper shipping name:</u>       | Not regulated  |
| <u>14.3. Transport hazard class(es):</u> | Not regulated  |
| <u>14.4. Packing group:</u>              | Not Applicable |

### ADR

Not regulated

- |  |                |
|--|----------------|
| <u>14.1. UN number:</u>                  | Not regulated  |
| <u>14.2. Proper shipping name:</u>       | Not regulated  |
| <u>14.3. Transport hazard class(es):</u> | Not regulated  |
| <u>14.4. Packing group:</u>              | Not Applicable |

### IATA

Not regulated

- |  |                |
|--|----------------|
| <u>14.1. UN number:</u>                  | Not regulated  |
| <u>14.2. Proper shipping name:</u>       | Not regulated  |
| <u>14.3. Transport hazard class(es):</u> | Not regulated  |
| <u>14.4. Packing group:</u>              | Not Applicable |

- |  |                                 |
|--|---------------------------------|
| <u>14.5. Environmental hazards</u>   | No hazards identified           |
| <u>14.6. Special precautions for user</u>  | No special precautions required |
| <u>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u> | Not applicable, packaged goods  |

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### US FEDERAL REGULATIONS:

EPA Registration Number:	6836-385
Signal Word:	Not applicable
Hazard statements:	Not applicable

**CERCLA Reportable Quantity:** Orthophosphoric acid. CAS #7665-38-2. Component RQ: 5000 lbs.

**SARA 304 Extremely Hazardous Substances reportable Quantity:** Hydrogen peroxide. CAS #722-84-1. Component RQ: 1000 lbs.

**TSCA:** In TSCA (Toxic Substances Control Act)

**California Prop. 65:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **SARA 311 and 312 HAZARD CATEGORIES:**

See above: SECTION 2. Hazard Identification – GHS Classification.

#### **SARA SECTION 313 NOTIFICATION:**

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

#### **CLEAN AIR ACT:**

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:  
Orthophosphoric acid. CAS #7665-38-2. Component RQ: 5000 lbs.

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:  
Orthophosphoric acid. CAS #7665-38-2. Component:  $\geq 0.1$  -  $< 1\%$

#### **CAA 602 OZONE DEPLETING SUBSTANCES (ODS):**

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

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**VOLATILE ORGANIC COMPOUNDS (VOC):** Not Applicable.

### US STATE REGULATIONS:

#### Massachusetts Right to Know

Hydrogen Peroxide 7722-84-1

#### Pennsylvania Right to Know

Water 112-34-5

**VOLATILE ORGANIC COMPOUNDS (CARB):** Not Applicable.

**CANADIAN REGULATIONS:** N/A

**DSL/NDSL:** N/A

**WHMIS CLASSIFICATION:** N/A

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### **15.2. Chemical safety assessment**

A Chemical Safety Assessment/Report (CSA/CSR) has not been completed.

## SECTION 16: OTHER INFORMATION

### **Legend**

CAS - Chemical Abstracts Service

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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WEL - Workplace Exposure Limit  
ACGIH - American Conference of Industrial Hygiene  
DNEL - Derived No Effect Level  
TWA - Time Weighted Average  
IARC - International Agency for Research on Cancer  
PNEC - Predicted No Effect Concentration  
RPE - Respiratory Protective Equipment  
LD50 - Lethal Dose 50%  
LC50 - Lethal Concentration 50%  
NOEC - No Observed Effect Concentration  
PBT - Persistent, Bioaccumulative, Toxic  
EC50 - Effective Concentration 50%  
POW - Partition coefficient Octanol:Water  
vPvB - very Persistent, very Bioaccumulative  
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road  
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code  
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association  
MARPOL - International Convention for the Prevention of Pollution from Ships  
OECD - Organisation for Economic Co-operation and Development      ATE - Acute Toxicity Estimate  
BCF - Bioconcentration factor  
VOC - Volatile Organic Compounds

### Key literature references and sources for data

Suppliers safety data sheet,  
Chemadvisor - LOLI,  
Merck index,  
RTECS

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.  
Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.  
First aid for chemical exposure, including the use of eye wash and safety showers.

The information in this Safety Data Sheet should be provided to all who use, handle, transport, or otherwise are exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and persons working with or handling this product. The information presented in this SDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. Additionally, if this Safety Data Sheet is more than

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## SAFETY DATA SHEET

three years old, please contact this supplier at the phone number above Section 1 to make sure this sheet is current.

PREPARED BY: T. Hidell

DATE: 10/24/2023

Supersedes: 1/2/2021

The information and recommendations contained herein are based upon data believed to be correct. No warranty, expressed or implied, is made.