SAFETY DATA SHEET
Cat# K744-100 MPO Colorimetric Activity Assay Kit

REV SDS DATE: Feb 28, 2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MPO Colorimetric Activity Assay Kit

PRODUCT CODES: Cat# K744-100

RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.

MANUFACTURER: BioVision, Inc.
DIVISION: 155 S. Milpitas Boulevard, Milpitas, CA 95035

EMERGENCY PHONE: 858-373-8066
CHEMTREC PHONE: 1-800-493-1800
FAX PHONE: 408-493-1801

SECTION 2: HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Volume</th>
<th>Safety Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPO Assay Buffer</td>
<td>Proprietary Buffer (contains Igepal CA-630)</td>
<td>25 ml</td>
<td>See below</td>
</tr>
<tr>
<td>DTNB Probe</td>
<td>In DMSO</td>
<td>50 µl</td>
<td>See below</td>
</tr>
<tr>
<td>TCEP</td>
<td>Liquid</td>
<td>50 µl</td>
<td>See below</td>
</tr>
<tr>
<td>MPO Substrate</td>
<td>Liquid (contains H2O2)</td>
<td>50 ul</td>
<td>See below</td>
</tr>
<tr>
<td>Stop Mix</td>
<td>Liquid</td>
<td>n/a</td>
<td>No hazards</td>
</tr>
<tr>
<td>MPO Positive Control</td>
<td>Lyophilized</td>
<td>1 vial</td>
<td>No hazards</td>
</tr>
</tbody>
</table>

IGEPAL CA-630:
Emergency Overview
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

GHS Label elements, including precautionary statements

Pictogram:

Signal word: Danger

Hazard statement(s):
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P332 + P313 IF skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMS Classification
Health hazard: 2
Chronic health hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 2
Fire: 0
Potential Health Effects
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Skin:** May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes:** May cause eye irritation.
- **Ingestion:** May be harmful if swallowed.

**DMSO:**

**Emergency Overview**

**OSHA Hazards:** Combustible Liquid, Target Organ Effect

**Target Organs:** Eyes, Skin

**GHS Classification:** Flammable liquids (Category 4)

**Pictogram:** none

**Signal word:** Warning

**Hazard statement(s):** H227 Combustible liquid

**Precautionary statement(s):** none

**HMIS Classification**
- Health hazard: 0
- Chronic Health Hazard: *
- Flammability: 2
- Physical hazards: 0

**NFPA Rating**
- Health hazard: 0
- Fire: 2
- Reactivity Hazard: 0

**Potential Health Effects**
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Skin:** May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes:** May cause eye irritation.
- **Ingestion:** May be harmful if swallowed.

**Aggravated Medical Condition:** Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

**DTNB:**

**Emergency Overview**

**OSHA Hazards:** Irritant

**GHS Classification:** Skin irritation (Category 2)  
Eye irritation (Category 2A)

**Specific target organ toxicity – single exposure (Category 3)**

**GHS Label elements, including precautionary statements**

**Pictogram:**

**Signal word:** Warning

**Hazard statement(s):**
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

**Precautionary statement(s):**
- P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.

**HMIS Classification**
- Health hazard: 2
- Flammability: 0
- Physical hazards: 0

**NFPA Rating**
- Health Hazard: 2
- Fire: 0
- Reactivity Hazard: 0

**Potential Health Effects**
- **Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
- **Skin:** May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes:** Causes eye irritation.
- **Ingestion:** May be harmful if swallowed.
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Cat# K744-100 MPO Colorimetric Activity Assay Kit
TCEP:
Emergency Overview
OSHA Hazards: Irritant
GHS Classification:

GHS Label elements, including precautionary statements
Pictogram:

Signal word: Warning
Hazard statement(s):
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
Precautionary statement(s):
- P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.

HMIS Classification
- Health hazard: 2
- Flammability: 0
- Physical hazards: 0

NFPA Rating
- Health Hazard: 2
- Fire: 0
- Reactivity Hazard: 0

Potential Health Effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

Hydrogen peroxide:
Emergency Overview
OSHA Hazards: Oxidizer, Target organ effect, Harmful by ingestion, Corrosive
Target Organs: Eyes, Skin, Respiratory system
GHS Classification:
- Oxidizing liquids (Category 1)
- Acute toxicity, Oral (Category 4)
- Acute toxicity, Inhalation (Category 5)
- Skin corrosion (Category 1A)
- Serious eye damage (Category 1)
- Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements
Pictogram:

Signal word: Danger
Hazard statement(s):
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
Precautionary statement(s):
- P280 Wear eye protection/face protection.
- P280 Wear protective gloves.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

HMIS Classification
- Health hazard: 3
- Chronic health hazard: *
- Flammability: 0
- Physical hazards: 2

NFPA Rating
- Health Hazard: 3
- Fire: 0
- Reactivity Hazard: 2
- Special Hazard: OX

Potential Health Effects
Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
SAFETY DATA SHEET
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Skin: May be harmful if absorbed through skin. Causes skin burns.
Enter: Causes eye burns.
Ingestion: Harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>EC-No.</th>
<th>Molecular Weight</th>
<th>Chemical Formula</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Igepa CA-630</td>
<td>9002-93-1</td>
<td>--</td>
<td>603</td>
<td>(C8H4O)nCu2H2O2</td>
<td>&lt; 0.2%</td>
</tr>
<tr>
<td>DMSO</td>
<td>67-68-5</td>
<td>200-664-3</td>
<td>78.13</td>
<td>C2H6OS</td>
<td>100%</td>
</tr>
<tr>
<td>5,5’-Dithiobis(2-nitrobenzoic acid) [DTNB]</td>
<td>69-78-3</td>
<td>200-714-4</td>
<td>396.35</td>
<td>C14H8N2O8S2</td>
<td>&lt;5 %</td>
</tr>
<tr>
<td>TCEP</td>
<td>51805-45-9</td>
<td>--</td>
<td>286.65</td>
<td>C9H15O6P • HCl</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>34.01</td>
<td>H2O2</td>
<td>&lt; 4%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing during transport to hospital.
If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

DMSO:
Suitable extinguishing media: For small (incipient) fires, use media such as “alcohol” foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
Hazardous combustion products: Hazardous combustion products formed under fire conditions – no data available.
Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: -20 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

DMSO:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl sulfoxide</td>
<td>67-68-5</td>
<td>TWA</td>
<td>250 ppm</td>
<td>USA. Workplace Environmental Exposure Levels (WEEL)</td>
</tr>
</tbody>
</table>

Hydrogen peroxide:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>TWA</td>
<td>1 ppm</td>
<td>USA. ACGIH Threshold Values (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
<td>USA. Occupational Exposure Limits (OSHA) – Table Z-1 – Limits for Air Contaminants</td>
</tr>
</tbody>
</table>

Remarks: Eye, skin, & upper respiratory tract irritation. Confirmed animal carcinogen with unknown relevance to humans.

The value in mg/m³ is approximate.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>DMSO</th>
<th>DTNB</th>
<th>TCEP</th>
<th>Hydrogen peroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
<td>Light yellow powder</td>
<td>liquid</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td>No data available</td>
<td>6.0-8.0</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Other Solubility</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>189 °C (372 °F)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>16-19 °C (61-66 °F)</td>
<td>240-250 °C (464-473 °F)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>87 °C (189 °F)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Ignition Temperature (°C)</td>
<td>301 °C (574 °F)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.1 g/ml</td>
<td>No data available</td>
<td>No data available</td>
<td>1.11 g/cm³</td>
</tr>
</tbody>
</table>

**SECTION 10: STABILITY AND REACTIVITY**

**Chemical stability:** Stable under recommended storage conditions

**Conditions to avoid:** Heat, flames, sparks

**Materials to avoid:** Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents

**Hazardous decomposition products:** Carbon oxides, sulfur oxides

**IGEPA CA-630:**

**Appearance:** Liquid

**pH:** 9.7

**Water Solubility:** Soluble

**Boiling Point (°C):** > 200 °C > 392 °F at 1,013 hPa

**Melting Point (°C):** 6 °C (43 °F)

**Flash Point (°C):** 251 °C (484 °F) - closed cup

**Ignition Temperature (°C):** No data available

**SECTION 11: TOXICOLOGICAL INFORMATION**

**IGEPA CA-630:**

**Acute toxicity:**
- LD50 Oral - Rat: 1,900 - 5,000 mg/kg
- LD50 Dermal - Rabbit: > 3,000 mg/kg

**Remarks:** (External MSDS) The value is given in analogy to the following substances: Inhalation: No data available

**Skin corrosion/irritation:**
- Skin: irritant - 4 h
  - (OECD Test Guideline 404)
Skin corrosion/irritation:

Acute toxicity

DTNB:

Additional information:

Potential Health Effects

Specific target organ toxicity

abnormalities: musculoskeletal system.

number of implants per corpora lutea). Effects on embry

Reproductive toxicity

number of implants). Effects on fertility: litter size (e.g. # fetuses per litter; measured before birth)

Reproductive toxicity – mouse – Oral Effects on fertility: post-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea). Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus). Specific developmental abnormalities: musculoskeletal system.

Teratogenicity: Developmental toxicity – mouse – Intraperitoneal: Effects on embryo/fetus: Fetotoxicity (except death, e.g. stunted fetus). Specific developmental abnormalities: musculoskeletal system

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

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: no data available

**DMSO:**

Acute toxicity: LD50 Oral – rat – 14,500 mg/kg
LC50 Inhalation – rat – 4 h – 40250 ppm
LD50 Dermal – rabbit – >5,000 mg/kg
Skin corrosion/Irritation: Skin – rabbit – no skin irritation – 4h
Serious eye damage/eye irritation: Eyes – rabbit – mild eye irritation
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: Genotoxicity in vitro – mouse – lymphocyte: Cytogenetic analysis
Genotoxicity in vitro – mouse – lymphocyte: Mutation in mammalian somatic cells
Genotoxicity in vivo – rat – Intraperitoneal: Cytogenetic analysis
Genotoxicity in vivo – mouse – Intraperitoneal: DNA damage
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

Signs and Symptoms of Exposure: Effects due to ingestion may include: nausea, fatigue, and/or headache.

Additional information: RTECS: PV8210000

**DTNB:**

Acute toxicity: LD50 Intraperitoneal – mouse – 2,080 mg/kg
Skin corrosion/Irritation: no data available

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Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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: no data available
Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available
Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Eyes: Causes eye irritation.
- Ingestion: May be harmful if swallowed.

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

Additional information: RTECS: DG9650000

Hydrogen peroxide:
- Acute toxicity: no data available
- Skin corrosion/irritation: no data available
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available

Carcinogenicity:
- IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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: no data available
Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available
Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Aspiration hazard: no data available

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

SECTION 12: ECOLOGICAL INFORMATION

IGEPAL CA-630:
- Persistence and degradability: Biodegradability aerobic - Exposure time 28 d (OECD Test Guideline 301C)
- Remarks: The value is given in analogy to the following substances:
  - Chemical Oxygen: 2.19 mg/g
  - Demand (COD)
- Toxicity:
  - Toxicity to fish: semi-static test LC50 - Leuciscus idus (Golden orfe) - 0.26 mg/l - 96h (OECD Test Guideline 203)
  - Remarks: The value is given in analogy to the following substances:
  - Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 0.011 mg/l - 48 h (ECOTOX Database)
  - Remarks: The value is given in analogy to the following substances:
  - Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1.9 mg/l - 96h (ECHA)
  - Remarks: The value is given in analogy to the following substances:
  - Bioaccumulative potential: no data available
  - Mobility in soil: no data available
  - PBT and vPvB assessment: no data available
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Other adverse effects: A material hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Causes endocrine disruption.

DMSO:
Elimination information (persistence and degradability): no data available
Ecotoxicity effects: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h; LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h; Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h
Further information on ecology: no data available
Hydrogen peroxide:
Persistence and degradability: no data available
Toxicity: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS
Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION
DOT (US): Not dangerous goods.
IMDG: Not dangerous goods.
IATA: Not dangerous goods.

SECTION 15: REGULATORY INFORMATION
OSHA Hazards: DTNB: Irritant
DMSO: Combustible liquid, Target organ effect
Hydrogen peroxide: Oxidizer, Target organ effect, Harmful by ingestion, Corrosive
SARA 302 Components: SARA 302: No chemical in this material are subject to the 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 II, Section 313.
SARA 311/312 Hazards:
IGEPAL CA-630: Acute Health Hazard
DTNB: Acute Health Hazard
DMSO: Fire Hazard, Chronic Health Hazard
Hydrogen peroxide: Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components: Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24
Pennsylvania Right To Know Components:
IGEPAL CA-630, CAS-No. 9002-93-1
Dimethyl sulfoxide CAS-No. 67-68-5
Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24
Tris(2-carboxyethyl)phosphine hydrochloride; CAS-No. 51805-45-9
DTNB, CAS-No. 69-78-3

New Jersey Right To Know Components:
IGEPAL CA-630, CAS-No. 9002-93-1
Dimethyl sulfoxide CAS-No. 67-68-5
Hydrogen peroxide, CAS-No. 7722-84-1; Revision Date: 1993-04-24
Tris(2-carboxyethyl)phosphine hydrochloride; CAS-No. 51805-45-9
DTNB, CAS-No. 69-78-3

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.

<table>
<thead>
<tr>
<th>EU regulations:</th>
<th>Component</th>
<th>Risk Phrases</th>
<th>Safety Phrases</th>
</tr>
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<td>Hydrogen peroxide</td>
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SECTION 16: OTHER INFORMATION

DISCLAIMER:
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