SECTION 2) HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Hazard not otherwise classified (HNOC)

Biosafety Level 1 Agents not known to consistently cause disease in healthy adults and present minimal potential hazard to laboratory personnel and the environment.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

This substance contains no ingredients at concentrations to be considered hazardous as defined by OSHA 29CFR 1910.1200 however this product should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls and within the parameters of the purchaser's chemical hygiene plan.

SECTION 4) FIRST-AID MEASURES

Inhalation
Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

4.1 Description of measures

Eye Contact
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Flush eyes with water for 15-20 minutes while holding eyelids open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Skin Contact
Take off all contaminated clothing immediately, shoes and leather goods (e.g. watchbands, belts). If skin irritation occurs or rash occurs: Get medical advice/attention. Wash with soap and plenty of water. Wash contaminated clothing before re-use or discard.

Ingestion
Rinse mouth with water. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

Most Important Symptoms/Effects, Acute and Delayed
Refer to Sec. 2 and 11
SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards arising from substance or mixture
No data available.

Advice for Firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further Information
No data available.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Isolate hazard area and keep unauthorized personnel away. For personal protection see section 8.

Environmental Precautions
Stop spill/release if it can be done safely. Do not allow product to reach ground water, water course or sewage system.

Methods and Materials for Containment and Cleanup
Allow aerosols to settle; wearing protective clothing, gently cover spill with paper towel and apply 10% sodium hypochlorite solution, starting at perimeter and working towards the center; allow sufficient contact time before clean up (30 min)
Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation. The use of additional PPE may be necessary for cleaning solutions.

SECTION 7) HANDLING AND STORAGE

Precautions for safe handling
Provide appropriate exhaust ventilation. See sec. 2 for additional precautions.

Conditions for safe storage, including any incompatibilities
Store in dry, well-ventilated areas. Keep containers securely sealed when not in use.

Specific end use(s)
Follow established laboratory procedures when handling material.

SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate Engineering Controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Skin 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.

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

Respiration Protection
Respiratory protection not required.
Control Parameters

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<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m3)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m3)</th>
<th>OSHA Tables (Z1, Z2, Z3)</th>
<th>OSHA Carcinogen</th>
<th>OSHA Carcinogen Threshold for OSHA Carcinogens</th>
<th>OSHA Skin designation</th>
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<th>ACGIH TLV Basis</th>
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SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Freeze Dried

Appearance: No Data Available
Odor Threshold: No Data Available
Odor Description: No Data Available
pH: No Data Available
Water Solubility: No Data Available
Flammability: N/A
Flash Point Symbol: No Data Available
Flash Point: No Data Available
Viscosity: No Data Available
Lower Explosion Level: No Data Available
Upper Explosion Level: No Data Available
Vapor Pressure: No Data Available
Vapor Density: No Data Available
Freezing Point: No Data Available
Melting Point: No Data Available
Low Boiling Point: No Data Available
High Boiling Point: No Data Available
Auto Ignition Temp: No Data Available
Decomposition Pt: No Data Available
Evaporation Rate: No Data Available
Coefficient Water/Oil: No Data Available

Other Information

No data available.
SECTION 10) STABILITY AND REACTIVITY

Stability
Stable under recommended handling and storage conditions

Reactivity
No data available.

Conditions to Avoid
No data available

Hazardous Reactions/Polymerization
Hazardous polymerization will not occur.

Incompatible Materials
No data available

Hazardous Decomposition Products
No data available.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Route of Exposure
Inhalation, ingestion, skin absorption

Acute Toxicity
No data available.

Skin Corrosion/Irritation
No data available.

Serious Eye Damage/Irritation
No data available.

Respiratory/Skin Sensitization
No data available.

Germ Cell Mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
No data available.

Specific Target Organ Toxicity - Repeated Exposure
No data available.

Aspiration Hazard
No data available.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity
No data available.

Persistence and Degradability
No data available.
Bio-accumulative Potential
No data available.

Mobility in Soil
No data available.

Other Adverse Effects
No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal
Product - Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information
UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Marine Pollutant: Not applicable
Hazardous substance (RQ): Not applicable
Note / Special Provision: Not applicable
Toxic-Inhalation Hazard: Not applicable

IMDG Information
UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Marine Pollutant: Not applicable
Note / Special Provision: Not applicable

IATA Information
UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Note / Special Provision: Not applicable

SECTION 15) REGULATORY INFORMATION

Regulatory Information
The following regulations have been evaluated for this product: DSL, EU_EC_Inventory, EU_EINECS, EU_ELINCS, EU_IOELV, EU_NLP, IARC Carcinogen, and TSCA. This substance is not listed on the TSCA Inventory. It is for research and development use only. This substance is not SARA listed.

SECTION 16) OTHER INFORMATION

Glossary
ACGIH - American Conference of Governmental Industrial Hygienists
BSC - Biological Safety Cabinet
CAS - Chemical Abstract Service
Chemtrec - Chemical Transportation Emergency Center(US)
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
HEPA - High efficiency particulate air
LC - Lethal Concentration
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