



Safety Data Sheet

Product Name: Mouse Mesenchymal Stem Cell Functional Identification Kit

Reviewed on: 18 July 2013

1. Identification of Substance:

- **GHS Product identifier:** Mouse Mesenchymal Stem Cell Functional Identification Kit
- **Other means of identification: Catalog Number: SC010**
Components: Adipogenic Supplement (contains 95% Ethanol), Osteogenic Supplement, Chondrogenic Supplement, ITS Supplement (contains Holo Transferrin and Selenious acid), Goat anti-mouse FABP-4, Sheep anti-mouse Collagen II, Goat anti-mouse Osteopontin.
- **Application of the substance / the preparation:** N/A
- **Manufacturer/Supplier:**
R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413 USA
- **For product related questions call:** 1-800-343-7475. In Europe call: +44(0)1235-529449.
- **Emergency information:** In case of a chemical emergency, spill, leak, fire, or accident call **CHEMTREC** at 1-800-424-9300 (US or Canada). Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

2. Hazards Identification:

- **Classification: Regulation (EC) No 1272/2008 [EU-GHS/CLP]:** Ethanol Solution >80%

Flammable Liquid, 2

Signal Word: DANGER



- **Hazard Statements:** H225: Highly flammable liquid and vapour.
- **Precautionary Statements:** P210: Keep away from heat/sparks/ open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P241: Use explosion-proof electrical equipment. P242: Use only non-sparking tools. P243: Take precautionary measure against static discharge. P280: Wear protective gloves/protective clothing/eye protection/face protection.
- **Responses:**
IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.
IN CASE OF FIRE: Use alcohol resistant foam, carbon dioxide, or dry chemical to extinguish.
- **Classification according to EU Directives 67/548/EEC or 1999/45/EC:** F: Highly Flammable.
- **R-phrases:** R11: Highly flammable.
- **S-phrases:** S1/2: Keep out of reach of children. S7: Keep container tightly closed. S16: Keep away from sources of ignition-No smoking.
- **Special Hazards:** none.

3. Information on Ingredients:

- **Description:** Ethanol Solution

Contains	CAS No.	EC-No.	Index-No.	Content
Ethanol	64-17-5	200-578-6	603-002-00-5	>80%

4. First Aid Measures:

- **After inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **After skin contact:** Wash off with soap and plenty of water. Take victim immediately to a hospital. Consult a physician.
- **After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this MSDS.



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- **After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician. Show this MSDS.
- **Most important symptoms and effects, both acute and delayed:** Unknown
- **Indication of any immediate medical attention and special treatment needed:** No data available

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Do not extinguish fire unless flow can be stopped. Use water in flooding quantities as fog. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible.
- **Special hazards arising from the substance or mixture:** Emits toxic fumes under fire conditions. Carbon oxides.
- **Protective equipment:** Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- **Further information:** Use water spray to cool unopened containers.

6. Accidental Release Measures:

- **Personal precautions, protective equipment and emergency procedures:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate all personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- **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 and materials for containment and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. Handling and Storage:

- **Precautions for safe handling:** Keep away from sources of ignition – No Smoking. Take measures to prevent the buildup of electrostatic charge.
- **Conditions for safe storage, including incompatibilities:** Store in a well ventilated place. Keep cool.

8. Exposure Controls and Personal Protection:

- **Control parameters:**
UK EH40 WEL Workplace Exposure Limits: TWA 1000 ppm, 1920 mg/m³.
NIOSH REL: TWA 1000 ppm, 1900 mg/m³.
- **Appropriate engineering controls:** Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling product.
 - Personal Protective Equipment:**
 - Eye and Face Protection:** Tightly fitting safety goggles. Face shield (8-inch minimum).
 - 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. Wash and dry hands.
 - Body Protection:** Complete suit protection against chemicals, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use full-face respirator.

9. Physical and Chemical Properties:

- | | |
|--|--|
| ▪ Appearance: Liquid | Upper/lower flammability or explosive limits: Not available |
| ▪ Odor: weak vinous odor | Vapor density : Not available |
| ▪ Odor threshold: Not available | Vapor pressure: Not available |
| ▪ pH: Not available | Relative density: Not available |
| ▪ Melting point/freezing point: Not available. | Boiling point/Boiling range: at or above 100° F. |
| ▪ Partition coefficient: octanol/water: Not available | Auto igniting: Not available |



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- **Flash point:** Not available
- **Water solubility:** Soluble
- **Evaporation rate:** Not available

Decomposition temperature: Not available
Viscosity: Not available
Flammability (solid, gas): Not available

10. Stability and Reactivity:

- **Reactivity:** Strong oxidizing agents, peroxides, acid chlorides, acid anhydrides, alkali metals, ammonia, moisture, air.
- **Chemical Stability:** Hygroscopic.
- **Possibility of hazardous reactions:** Forms explosive mixtures with air.
- **Conditions to avoid:** Heat, flames, sources of ignition.
- **Incompatible materials:** Strong oxidizers, alkalis and acids, air.
- **Hazardous decomposition products:** no data available.

11. Toxicological Information:

- **Acute toxicity:** rat oral – LD50 = 7060 mg/kg; mouse oral – LD50 = 3450 mg/kg.
- **Skin corrosion/irritation:** no data available
- **Serious eye damage/irritation:** rat inhalation – LD50 = 20,000 ppm/10 hours.
- **Respiratory or skin sensitization:** no data available
- **Germ cell mutagenicity:** no data available.
- **Carcinogenicity:** no data available.
- **Reproductive toxicity:** no data available.
- **Specific target organ toxicity (STOT) -single exposure:** eyes, skin, respiratory system, central nervous system, liver, blood reproductive system.
- **Specific target organ toxicity (STOT) -repeated exposure:** liver.
- **Aspiration hazard:** may cause respiratory irritation.
- **Information on likely routes of exposure:** ingestion, inhalation, skin and/or eye contact.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation:** nose irritation.
 - Ingestion:** headache, drowsiness, lassitude (weakness, exhaustion), narcosis, cough, liver damage, anemia, reproductive/teratogenic effects.
 - Skin contact:** irritation and redness.
 - Eye contact:** irritation and redness.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:** acute intoxication, delayed effects on liver, blood and reproductive systems.

12. Ecological Information:

- **Ecotoxicity:** *Salmo gairdnerii* (Rainbow Trout) LD50 13,000 mg/L/ 96 hours.
- **Biodegradability:** Ethanol is a natural emission product from various plants, fermentation product and as a biological decomposition product from wastes and sewage. It exists solely in the vapor phase with a half-life of 5 days.
- **Bioaccumulative potential:** Ethanol is not expected to adsorb to suspended solids and sediments.
- **Mobility in soil:** no data available.
- **Other adverse effects:** no data available.

13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated packaging:** Dispose in the same manner as unused product.



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14. Transport Information:

■ ADR/RID ADN/ADNR IMDG IATA/DOT

ADR/DOT/ UN Number: UN 1170
RID Proper Shipping Name: Ethanol
Hazard class: 3
Packing group: II

IATA: UN Number: UN 1170
Proper Shipping Name: Ethanol
Hazard class: 3
Packing group: II

IMDG: UN Number: UN 1170
Proper Shipping Name: Ethanol
Hazard class: 3
Packing group: II
Marine Pollutant: No

15. Regulations:

■ US Federal and State Regulations

TSCA (Toxic Substances Control Act): Ethanol is listed.

SARA 313: Ethanol is not listed.

SARA 311/312 Hazards: Not listed.

CERCLA Reportable Quantity: not reportable.

California Proposition 65: Ethanol in alcoholic beverages is listed on California's listing of known or potential carcinogens.

16. Other Information:

■ R-phrases: R11: Highly flammable.

■ S-phrases: S1/2: Keep out of reach of children. S7: Keep container tightly closed. S16: Keep away from sources of ignition-No smoking.

■ Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

2. Hazard Identification:

■ Classification: Regulation (EC) No. 1272/2008 [CLP/EU-GHS]: **Selenious Acid** (See concentration below.)

■ GHS Classification: Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
STOT RE 2

■ Signal Word: DANGER



■ Hazard Statements: H301: Toxic if swallowed; H331: Toxic if inhaled; May cause damage to organs (liver) through prolonged or repeated exposure.

■ Precautionary Statements: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P261: Avoid breathing dust/fumes/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

■ Responses:

IF SWALLOWED: Immediately call a Poison Center or physician. See specific treatment in this SDS. Rinse mouth.



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IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or physician. See specific treatments in this SDS.

IF EXPOSED: Get medical attention if you feel unwell.

- **Classification according to EU Directives 67/548/EEC or 1999/45/EC:** T: Toxic. N: Dangerous for the environment.
- **R Phrases:** R23/25: Toxic by inhalation and if swallowed. R33: Danger of cumulative effects. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **S Phrases:** S1/2: Keep locked up and out of reach of children. S20/21: When using do not eat, drink or smoke. S28: After contact with skin, wash immediately with plenty of soap and water. S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
- **Special Hazards: EUH031:** Contact with acids liberates toxic gas.

3. Information on Ingredients:

Description: Selenious Acid **Formula:** H_2SeO_3 **Molecular Weight:** 128.97 g/mol

Contains	CAS No.	EC-No.	Index-No.	Content
Selenious Acid	7783-00-8		034-002-00-8	< 0.001%*

*NOT HAZARDOUS AT THIS CONCENTRATION.

4. First Aid Measures:

- **After Inhalation:** If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **After Skin Contact:** Wash off with soap and plenty of water. Take victim immediately to a hospital. Consult a physician.
- **After Eye Contact:** Flush eyes with water as a precaution.
- **After Swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- **Most important symptoms and effects, both acute and delayed:** Acute: Abdominal cramps. Vomiting. Cough, dizziness, Headache. Delayed: contact with skin may cause dermatitis.
- **Indication of any immediate medical attention and special treatment needed:** Consult a physician.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Water spray, foam, carbon dioxide, dry sand, special powder.
- **Special hazards arising from the substance or mixture:** Hazardous decomposition products formed under fire conditions – Sodium oxides, Selenium/Selenium oxides.
- **Special protective actions for fire-fighters:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures:

- **Personal precautions, protective equipment and emergency procedures:** Wear respiratory protection. Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- **Environmental precautions:** Keep away from drains. **Discharge into environment must be avoided.**
- **Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable closed containers for disposal.



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7. Handling and Storage:

- **Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation at places where dust is formed.
- **Conditions for safe storage, including incompatibilities:** Store locked up. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not allow to come in contact with acids.

8. Exposure Controls and Personal Protection:

- **Control parameters:**
Component: Selenious Acid (CAS# 7783-00-8): **USA Occupational Exposure Limits (OSHA):** TWA – 0.2 mg/m³
UK EH40 WEL – Workplace Exposure Limits: TWA – 0.1 mg/m³
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Eye/face protection: Face Shield and Safety Glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin/hand protection: Handle with protective gloves, plastic or rubber. 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.
Body protection: Complete Suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
Respiratory protection: In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties:

- | | |
|--|--|
| ▪ Appearance: Liquid | Upper/lower flammability or explosive limits: Not available |
| ▪ Odor: Odorless | Vapor density : Not available |
| ▪ Odor threshold: Not available | Vapor pressure: Not available |
| ▪ pH: Not available | Relative density: Not available |
| ▪ Melting point/freezing point: Not available | Solubility in Water: Soluble |
| ▪ Boiling point/Boiling range: Not available | Partition coefficient: octanol/water: Not available |
| ▪ Flash point: Not available | Auto igniting: Not available |
| ▪ Evaporation rate: Not available | Decomposition temperature: Not available |
| ▪ Flammability (solid, gas): Not available | Viscosity: Not available |

10. Stability and Reactivity:

- **Reactivity:** No data available
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** No data available
- **Conditions to avoid:** No data available
- **Incompatible materials:** Strong acids
- **Hazardous decomposition products:** Products formed under fire conditions: Sodium oxides, Selenium/selenium oxides.

11. Toxicological Information:

- **Acute toxicity: Oral LD50:** LD50 Oral – mouse – 16 mg/kg/day, LD50 Oral – rat – 48 mg/kg/day.
- **Inhalation LC50 and Dermal LD50** – No data available.
- **Skin corrosion/irritation:** Redness, pain, blisters and skin burns.



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- **Serious eye damage/irritation:** Redness, pain and severe burns.
- **Respiratory or skin sensitization:** Upper respiratory irritation, burning sensation, sore throat, shortness of breath.
- **Germ cell mutagenicity:** No data available.
- **Carcinogenicity:** No data available.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity (STOT) -single exposure:** **Corrosive** to eyes, skin and respiratory tract. Inhalation may cause lung edema.
- **Specific target organ toxicity (STOT) -repeated exposure:** Skin sensitization and liver impairment.
- **Aspiration hazard:** No data available
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Potential Health Effects:**
 - Inhalation: May cause respiratory tract irritation.
 - Ingestion: May be fatal if swallowed.
 - Skin: May be harmful if absorbed through skin. May cause skin irritation or burns.
 - Eyes: May cause eye irritation or burns.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation: May cause respiratory tract irritation.
 - Ingestion: May be fatal if swallowed.
 - Skin: May be harmful if absorbed through skin. May cause skin irritation or burns.
 - Eyes: May cause eye irritation or burns.
- **Signs and Symptoms of Exposure:** Selenious acid and its salts are capable of penetrating the skin and can produce acute poisonings. Causes irritations and burns of the skin. It is highly toxic orally.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**
 - Short term exposure: Potential immediate effects:** hyper salivation, garlic odor of the breath, vomiting, diarrhea, muscle spasms increased blood pressure, pulmonary edema, eye irritation.
 - Potential delayed effects:** Symptoms of lung edema often do not manifest until a few hours post exposure.
 - Long term exposure: Potential immediate effects:** Not available. **Potential delayed effects:** Not available.
- **Effects of chronic exposure:** marked hepatic necrosis in laboratory experiments.
- **Numerical measures of toxicity:** Not available
- **Other Information:** RTECS: VS7175000

12. Ecological Information:

- **Ecotoxicity:** Toxicity to fish: LC50 – *Salvelinus fontinalis* (Brook trout) – 36.3 mg/L – 24 hr.
- **Biodegradability and Persistence:** No data available.
- **Bioaccumulative potential:** may occur along the food chain in plants and fish.
- **Mobility in soil:** No data available.
- **Other adverse effects:** Toxic to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations:

- **Disposal methods:** 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 a afterburner and scrubber. Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** no data available

14. Transport Information:

- **UN Number:** None
- **DOT regulations:** - **Hazard class:** None
- **Land transport ADR/RID (cross-border):** Not regulated.
- **Maritime transport IMDG:** Not regulated.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:** Not regulated.



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- **Transport/Additional information:** Not dangerous according to the above specifications.

15. Regulations:

- **US. Toxic Substances Control Act:** On TSCA inventory
SARA 313 Components: Selenious acid is listed
SARA 311/312 Hazards: Acute Health Hazard
CERCLA Reportable Quantity: 10 lbs.
California Proposition 65: Not listed.

16. Other Information:

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

2. Hazards Identification:

- **Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]:** Holo Transferrin (from human serum/plasma)
- **Hazard Symbol:** none
- **Signal Word:** none
- **Hazard Statement(s):** None
- **Precautionary Statement(s):** None
- **Response:**
 - **Special Hazards:** Potential risk of infection. Product has been donor screened for some infections agents, however as human sourced material testing cannot be guaranteed to detect all infectious agents. Treat as potentially infectious.
 - **Routes of exposure:** Inhalation; ingestion or skin.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
- **Classification according to Directive 67/548/EEC:** None
- **R-phrases:** None
- **S-phrases:** None
- **Other Hazards:** None

3. Information on Ingredients:

Contains	EINECS	CAS No.	Content %
Human Holo Transferrin	NA	NA	< 0.1%

4. First Aid Measures:

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly. May be irritating to skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Any means suitable for extinguishing the surrounding area.
- **Specific hazards arising from the chemical:** Dangerous decomposition is not anticipated.
- **Protective equipment:** Wear appropriate protective clothing and a self-contained breathing apparatus if necessary.



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6. Accidental Release Measures:

- **Person-related safety precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Prevent further spillage or leakage if safe to do so.
- **Measures for containment and cleaning:** Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to item 13.

7. Handling and Storage:

- **Precautions for safe handling:** Treat as a potential biohazard. Store away from all foodstuffs. For laboratory use only.
- **Information about protection against explosions and fires:** Normal measures for preventive fire protection.
- **Conditions for safe storage:** Store in a cool place. Keep container tightly closed in a dry and well ventilated place.

8. Exposure Controls and Personal Protection:

- **Components:** UK. EH40 WEL- **Workplace Exposure Limits:** Value: Unknown
- **Appropriate engineering controls:** Follow usual standard laboratory practices. The following personal protection is recommended:
 - Respiratory Protection:** Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
 - Hand Protection:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
 - Eye Protection:** Use equipment for eye protection tested and approved under appropriate government standards.
 - Skin and Body Protection:** Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

9. Physical and Chemical Properties:

- | | |
|---|---|
| ▪ Appearance: Liquid | Upper/lower flammability or explosive limits: Not available. |
| ▪ Odor: Little to none | Vapor pressure/density: Not available. |
| ▪ Odor threshold: Not available | Relative Density: Not available. |
| ▪ pH: Not available | Solubility in/Miscibility with Water: Not available. |
| ▪ Melting point/freezing point: Not available. | Partition coefficient: octanol/water: Not available |
| ▪ Boiling point/Boiling range: Not available. | Auto igniting: Product is not self igniting. |
| ▪ Flash point: Not available. | Decomposition temperature: Not available. |
| ▪ Evaporation rate: Undetermined. | Viscosity: Not available. |
| ▪ Flammability: Not available. | |

10. Stability and Reactivity:

- **Reactivity:** Not reactive
- **Chemical Stability:** Stable under normal ambient and storage and handling temperatures.
- **Thermal:** Decomposition/conditions to be avoided: No decomposition if used according to specifications.
- **Incompatible materials to be avoided:** Unknown
- **Hazardous decomposition products:** No dangerous decomposition products known.

11. Toxicological Information:

- **Acute toxicity:** May irritate eyes.
- **Chronic Toxicity:** Potential risk of infection. Product has been donor screened for some infections agents, however as human sourced material testing cannot be guaranteed to detect all infectious agents. Treat as potentially infectious.
- **Routes of exposure:** Inhalation; ingestion or skin.
- **Skin corrosion / irritation:** May be harmful if absorbed through the skin. May cause skin irritation.
- **Serious eye damage / irritation:** May cause eye irritation.



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- **Respiratory or skin sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity:** No effect known.
- **Carcinogenicity:** No effect known.
- **Reproductive toxicity:** No toxic effect known.
- **STOT-single exposure:** Data not available
- **STOT-repeated exposure:** Data not available.
- **Aspiration hazard:** May be harmful if inhaled.
- **Additional Information:** RTECS: Not available

12. Ecological Information:

- **Ecotoxicity:** No data available.
- **Persistence and degradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Other adverse effects:** No data available.

13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations for infectious materials.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as potentially infectious material by autoclaving or incineration. Large spills must be dealt with separately by qualified disposal personnel.

14. Transport Information:

- **UN Number:** None
- **DOT regulations:** -Hazard class: None
- **Land transport ADR/RID (cross-border):** Not regulated.
- **Maritime transport IMDG:** Not regulated.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:** Not regulated.
- **Transport/Additional information:** Not dangerous according to the above specifications.

15. Regulations:

- **US Federal and State Regulations**
 - TSCA (Toxic Substances Control Act):** Not listed.
 - SARA 313:** Not listed.
 - SARA 311/312 Hazards:** Not listed
 - CERCLA Reportable Quantity:** NA
 - California Proposition 65:** Not listed.

16. Other Information:

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.