

Product Name: Human Active MMP-9 Fluorokine E Kit

Reviewed on: 16 April 2019

1. Identification of Substance:

- **Other means of identification: Catalog Number:** F1M00
Components: Microplate, Standard (contains ProClin 300), Assay Diluent (contains ProClin 300), Calibrator Diluent (Contains Sodium Azide and ProClin 300), Reagent Diluent (contains Sodium azide), Wash Buffer Concentrate (contains ProClin 300), Substrate and p-Aminophenylmercuric Acetate (contains APMA).
- **GHS product identifier:** Human Active MMP-9 Fluorokine E Kit
- **Application of the substance / the preparation:** For Research Use Only
- **Manufacturer/Supplier:**
Bio-Techne - R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413 USA
1-800-343-7475
- **For product related questions call:** 1-800-343-7475. In Europe call: +44(0)1235-529449.

2. Hazard Identification:

- **Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]**
p-Aminophenylmercuric Acetate (APMA)

Acute Toxicity 1: Inhalation

Acute Toxicity 2: Dermal

Acute Toxicity 2: Oral

STOT RE 2

Aquatic Acute 1

Aquatic Chronic 1

- **Signal Word: DANGER**



- **Hazard statements:** H330 Fatal if inhaled. H310 Fatal if in contact with skin. H300 Fatal if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

- **Target Organs:** Central Nervous System

- **Precautionary Statements:** P233 Keep container tightly closed. P260 Do not breathe dust/fumes/gas/mist/vapors/spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves, clothing and eye protection. P284 Wear respiratory protection.

- **Potential Health Effects:**

Inhalation: May cause respiratory tract irritation. Acute exposure to high concentrations of mercury vapors may cause severe respiratory tract irritation.

Chronic: Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, and personality changes. Chronic ingestion may cause accumulation of mercury in body tissues. Chronic exposure to mercury vapors may produce weakness, fatigue, anorexia, loss of weight and gastrointestinal disturbances which is collectively referred to as asthenic-vegetative syndrome or micromercurialism. Chronic exposure to mercury compounds may produce immunologic glomerular disease.

- **Classification according to Directive 67/548/EEC:** Very toxic to aquatic organisms, may cause long-term adverse effects on the aquatic

- **Hazard Symbols:** T+ Very Toxic
N Dangerous for the environment.

R-phrases: R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R33 Danger of accumulative effects. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S13 Keep away from food, drink and animal feedstuffs. S28 After contact with skin, wash immediately with plenty of soap and water. S36 Wear suitable protective clothing. S45 In case of accident of if you feel unwell, seek medical advice immediately. S60

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info@bio-techne.com

techsupport@bio-techne.com

North America

TEL 800 343 7475

Europe • Middle East • Africa

TEL +44 (0) 1235 529449

China

info.cn@bio-techne.com

TEL +86 (21) 52380373

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This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions / MSDS.

- **Other hazards:** none

3. Information on Ingredients:

Description: Sulfuric Acid, Formula: H₂SO₄.

Contains	CAS No.	EC-No.	Index-No.	Content
p-Aminophenylmercuric Acetate	6283-24-5	228-497-1	080-004-00-7	17 – 18%

4. First Aid Measures:

- IF ON SKIN:** Gently wash with plenty of soap and water. Take off immediately all contaminated clothing and wash before reuse. Immediately call the POSION CONTROL center or physician. .Get medical advice/attention if you feel unwell. Refer to special instructions in this MSDS.
- IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call the POSION CONTROL center or physician. Specific treatment is urgent, refer to special instructions in this MSDS.
- IF SWALLOWED:** Rinse mouth. Immediately call the POSION CONTROL center or physician. Refer to special instructions in this MSDS.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special precautions for fire-fighters:** Self contained breathing apparatus and full protective clothing must we worn in case of fire.

6. Accidental Release Measures:

- **Person-related safety precautions:** Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
- **Measures for environmental protection:** Avoid release to the environment. Collect spillage.
- **Measures for containment and cleaning:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. Handling and Storage:

- **Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed
- **Conditions for safe storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

8. Exposure Controls and Personal Protection:

- **Control parameters:** Exposure Limits CAS# 6283-24-5:
United States OSHA: 0.1 mg/m³ Ceiling (listed under Mercury, aryl and inorganic compounds).
Appropriate engineering controls: Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

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- **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: Wear approved safety goggles or face shield.

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: Wear suitable protective clothing as protection against splashing or contamination.

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: Not available	▪ 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: noctanol/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:

- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** No data available.
- **Incompatible materials:** Strong oxidizing agents, Strong acids, Strong bases
- **Hazardous decomposition products:** Under fire conditions: Carbon oxides, Nitrogen oxides, Mercury and mercury oxides.

11. Toxicological Information:

- **Acute toxicity:** LD50 Intravenous – mouse – 18 mg/kg
- **Skin corrosion/irritation:** No data available
- **Serious eye damage/irritation:** No data available
- **Respiratory or skin sensitization:** No data available
- **Germ cell mutagenicity:** No data available
- **Carcinogenicity:** IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **Reproductive toxicity:** No data available
- **Specific target organ toxicity (STOT) -single exposure:** No data available
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** No data available
- **Symptoms related to the physical, chemical and toxicological characteristics:**

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Inhalation: May be fatal if inhaled. May cause respiratory tract infection.

Ingestion: May be fatal if swallowed.

Skin contact: May cause skin irritation. May be fatal if absorbed through skin.

Eye contact: May cause eye irritation.

- **Signs and Symptoms of Exposure:** Tremors
- **Other Information:** RTECS: OV5550000

12. Ecological Information:

- **Ecotoxicity:** No data available
- **Biodegradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Other adverse effects:** Very toxic to aquatic organisms.

13. Disposal Considerations:

- **Disposal methods:** Dispose of contents/container in accordance to applicable national, regional, or local regulations. 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 in the same manner as unused product.
- **Special precautions:** Avoid dispersal of spilt material to soil, waterways, drains and sewers.

14. Transportation Information:

- **ADR/RID ADN/ADNR IMDG IATA/DOT**
- ADR/DOT/ UN Number:** UN 2024
- RID Proper Shipping Name:** MERCURY COMPOUND, LIQUID, N.O.S. (4-Aminophenylmercury acetate)
- Hazard class:** 6.1
- Packing group:** III

- IATA: UN Number:** UN 2024
- Proper Shipping Name:** MERCURY COMPOUND, LIQUID, N.O.S. (4-Aminophenylmercury acetate)
- Hazard class:** 6.1
- Packing group:** III

- IMDG: UN Number:** UN 2024
- Proper Shipping Name:** MERCURY COMPOUND, LIQUID, N.O.S. (4-Aminophenylmercury acetate)
- Hazard class:** 6.1
- Packing group:** III
- EmS Number:** F-A, S-A
- Marine Pollutant:** Yes

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15. Regulations:


US Federal and State Regulations

TSCA (Toxic Substances Control Act): p-Aminophenylmercuric Acetate is listed.

SARA 313: Mercury compounds are listed. p-Aminophenylmercuric Acetate is not listed.

SARA 311/312 Hazards: Acute Health Hazard

CERCLA Reportable Quantity: 100 lbs

California Proposition 65:  **WARNING:** This product can expose you to chemicals including mercury, which is known to the State of California to cause reproductive toxicity with developmental effects. For more information, go to WWW.P65Warnings.ca.gov.

16. Other Information:

- **R-phrases:** R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R33 Danger of accumulative effects. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **S-phrases:** S13 Keep away from food, drink and animal feedstuffs. S28 After contact with skin, wash immediately with plenty of soap and water. S36 Wear suitable protective clothing. S45 In case of accident of if you feel unwell, seek medical advice immediately. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions / MSDS.
- **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: This substance does not meet the classification criteria to be listed as a hazardous material according to the **Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA):** Contains Sodium Azide (less than 0.1%) – not a hazardous substance at this concentration.

- **Pictogram:** none
- **Signal Word:** none
- **Hazard statements:** none
- **Precautionary statements:** none
- **Response:** not needed
- **Hazard Symbol / R-Phrase / S-Phrase:** None
- **Label Elements:** The product does not need to be labeled in accordance with EC directives CLP/GHS directives or respective national laws.
- **Special Hazards:** None

3. Information on Ingredients:

Contains: Sodium Azide

Contains	CAS No.	EC-No.	Index-No.	Content
Sodium Azide	26628-22-8	247-852-1	011-004-00-7	<0.1% Not hazardous at this concentration

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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. Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Seek medical attention and appropriate follow-up.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray or extinguishing measure that is appropriate to local circumstances and the surrounding environment.
- **Hazards from the substance or mixture:** Sodium oxides.
- **Special precautions for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- **Other information:** This product does not burn.

6. Accidental Release Measures:

- **Person-related safety precautions:** Use standard laboratory practices and appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Keep away from drains.
- **Measures for containment and cleaning:** Soak up with inert absorbent material and dispose of as per section 13. Keep in suitable, closed containers for disposal.
- **Additional information:** None.

7. Handling and Storage:

- **Precautions for safe handling:** Avoid inhalation of vapor or mist. Avoid contact with eyes and skin. No special precautions are necessary if used correctly.
- **Conditions for safe storage:** Store in a cool, dry place. 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. Do not store in incompatible containers.

8. Exposure Controls and Personal Protection:

- **Control parameters:** None known.
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location. Follow standard laboratory practices.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the restroom. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear approved safety goggles.

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: Wear suitable protective clothing as protection against splashing or contamination.

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

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info@bio-techne.com

techsupport@bio-techne.com

North America

TEL 800 343 7475

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TEL +44 (0) 1235 529449

China

info.cn@bio-techne.com

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government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties:

▪ Appearance: Lyophilized white powder or clear 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: noctanol/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:** No data available
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** Hydroxides, amines, alkalis and metals.
- **Incompatible materials:** Hydroxides, amines, alkalis or metals such as copper, brass, zinc, potassium and sodium should be avoided.
- **Hazardous decomposition products:** Products formed under fire conditions: toxic gasses and vapors such as chlorine.

11. Toxicological Information:

- **Acute toxicity:** No data available.
- **Skin corrosion/irritation:** No data available.
- **Serious eye damage/irritation:** No data available.
- **Respiratory or skin sensitization:** No data available.
- **Germ cell mutagenicity:** No data available.
- **Carcinogenicity:** IARC: No data available.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity (STOT) - No data available**
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** No data available.
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation:** No data available.
 - Ingestion:** No data available.
 - Skin contact:** No data available.
 - Eye contact:** May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**
 - Short term exposure: Potential immediate effects:** No data available.
 - Potential delayed effects:** No data available.
 - Long term (chronic) exposure: Potential immediate effects:** No data available.
- **Potential delayed effects:** No data available.

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bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
TEL 800 343 7475

Europe • Middle East • Africa
TEL+44 (0) 1235 529449

China
info.cn@bio-techne.com
TEL +86 (21) 52380373

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- **Numerical measures of toxicity:** No data available.
- **Other Information:** No data available.

12. Ecological Information:

- **Ecotoxicity:** No data available..
- **Biodegradability:** 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. This material may be handled as hazardous waste by a licensed disposal company.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilled material to soil, waterways, drains and sewers.

14. Transportation Information:

- **ADR/RID ADN/ADNR IMDG IATA/DOT:** Not regulated.
- **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 Components:** Not listed
 - SARA 311/312 Hazards:** Not listed.
 - CERCLA Reportable Quantity:** Not listed.
 - California Proposition 65:** Not listed.
- **This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.**

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.

Product Name: Human Active MMP-9 Fluorokine E Kit

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2. Hazard Identification:

- **Classification:** This substance does not meet the classification criteria to be listed as a hazardous material according to the Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA): Contains ProClin 300 (less than 0.01%) – not a hazardous substance at this concentration.
- **Pictogram:** none
- **Signal Word:** none
- **Hazard statements:** none
- **Precautionary statements:** none
- **Response:** not needed
- **Hazard Symbol / R-Phrase / S-Phrase:** None
- **Label Elements:** The product does not need to be labeled in accordance with EC directives CLP/GHS directives or respective national laws.
- **Special Hazards:** None

3. Information on Ingredients:

Description: ProClin 300

Contains	CAS No.	EC-No.	Index-No.	Content
Mixture of 5-Chloro-2-Methyl-4-Isothiazolin-3-One (26172-55-4) and 2-Methyl-4-Isothiazolin-3-One (2682-20-4)	55965-84-9	-	613-167-00-5	<0.01%

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. Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Seek medical attention and appropriate follow-up.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray or extinguishing measure that is appropriate to local circumstances and the surrounding environment.
- **Hazards from the substance or mixture:** Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.
- **Special precautions for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- **Other information:** This product does not burn.

6. Accidental Release Measures:

- **Person-related safety precautions:** Use standard laboratory practices and appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Keep away from drains.
- **Measures for containment and cleaning:** Soak up with inert absorbent material and dispose of as per section 13. Keep in suitable, closed containers for disposal.
- **Additional information:** None.

7. Handling and Storage:

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- **Precautions for safe handling:** Avoid inhalation of vapor or mist. Avoid contact with eyes and skin. No special precautions are necessary if used correctly.
- **Conditions for safe storage:** Store in a cool, dry place. 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. Do not store in incompatible containers.

8. Exposure Controls and Personal Protection:

- **Control parameters:** None known.
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location. Follow standard laboratory practices.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the restroom. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear approved safety goggles.

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: Wear suitable protective clothing as protection against splashing or contamination.

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: Clear Liquid	▪ Upper/lower flammability or explosive limits: Not available
▪ Odor: Not available	▪ 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/Miscibility with 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:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** Strong oxidizing agents, reducing agents, Amines, Mercaptans.
- **Incompatible materials:** Hydroxides, amines, alkalis or metals such as copper, brass, zinc, potassium and sodium should be avoided.
- **Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions – Carbon oxides, nitrogen

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bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
TEL 800 343 7475

Europe • Middle East • Africa
TEL +44 (0) 1235 529449

China
info.cn@bio-techne.com
TEL +86 (21) 52380373

Rest of World
bio-techne.com/find-us/distributors
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oxides (NOx), Sulfur oxides, Hydrogen chloride gas.

11. Toxicological Information:

- **Acute toxicity:** No data available.
- **Skin corrosion/irritation:** No data available.
- **Serious eye damage/irritation:** No data available.
- **Respiratory or skin sensitization:** No data available.
- **Germ cell mutagenicity:** No data available.
- **Carcinogenicity:** IARC: No data available.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity (STOT) -** No data available
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** No data available.
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation:** No data available.
 - Ingestion:** No data available.
 - Skin contact:** No data available.
 - Eye contact:** May cause eye burns.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**
 - Short term exposure: Potential immediate effects:** No data available.
 - Potential delayed effects:** No data available.
 - Long term (chronic) exposure: Potential immediate effects:** No data available.
- **Potential delayed effects:** No data available.
- **Numerical measures of toxicity:** No data available.
- **Other Information:** No data available.

12. Ecological Information:

- **Ecotoxicity:** No data available..
- **Biodegradability:** 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. This material may be handled as hazardous waste by a licensed disposal company.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilled material to soil, waterways, drains and sewers

14. Transportation Information:

- **ADR/RID ADN/ADNR IMDG IATA/DOT:** Not regulated.
- **UN Number:** None
- **DOT regulations:** ·Hazard class: None
- **Land transport ADR/RID (cross-border):** Not regulated.
- **Maritime transport IMDG:** Not regulated.
- **Marine pollutant:** No

Product Name: Human Active MMP-9 Fluorokine E Kit

Reviewed on: 16 April 2019

- **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 Components:** Not listed
 - SARA 311/312 Hazards:** Not listed.
 - CERCLA Reportable Quantity:** Not listed.
 - California Proposition 65:** Not listed.
- **This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.**

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.