

| Section 1. PRODUCT AND COMPANY IDENTIFICATION | | | |
|---|---|---|---|
| Common Name/Trade Name: | | Quick Decon™ Mass Effect Solution H (Halogens) | |
| | | MSDS No. | 77101 |
| Manufacturer | Radiation Decontamination Solutions, LLC 141 Stevens Avenue Suite 9 Oldsmar, FL 34677 (813) 854-5100 | Catalog Number | H32, H1G, H55G, H8 |
| | | IN CASE OF EMERGENCY CALL 1- 813- 854-5100 24 hrs/day, 7 days/wk | |
| Supplier | Radiation Decontamination Solutions, LLC 141 Stevens Avenue Suite 9 Oldsmar, FL 34677 (813) 854-5100 | Product Use | Decontamination of Radioactive Halogens |

| Section 2: COMPOSITION/INFORMATION ON INGREDIENTS | | |
|---|------------------|-----------------|
| Name | Water | Other |
| % by Weight | Greater Than 98% | Less Than 2% |
| CAS Registry Number | 7732-18-5 | Not Appropriate |
| While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product. | | |

| Section 3: HAZARDS IDENTIFICATION | |
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| Label Precautionary Statement | Caution: Generally not hazardous in normal handling; however, good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation. |

| Section 4: FIRST AID MEASURES | |
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| Eye Contact | Check for and remove any contact lenses. Immediately flush eyes with running water for a least 15 minutes, keep eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention. |
| Skin Contact | Generally the product does not irritate intact skin. Wash exposed area with soap and water. If irritation persists, seek medical attention. |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband. |
| Inhalation | If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. |

| Section 5: FIRE FIGHTING MEASURES | |
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| Flash Point | Not flammable |
| Upper and Lower Flammable (Explosive) Limits In Air | Not applicable |

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| Auto-Ignition Temperature | Not applicable |
| Flammability Classification | Not flammable |
| Products of Combustion | Carbon monoxide, Carbon dioxide |
| Fire Fighting Media and Instructions | Any means suitable for extinguishing surrounding fire. |
| Protective Equipment | No special measures required. |
| Special Remarks on Explosion Hazards | None |

| Section 6: ACCIDENTAL RELEASE MEASURES | | |
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| Small and Large Spills | Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: | Not required No special measures Wipe up or dispose of down drain. |

| Section 7: HANDLING AND STORAGE | |
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| Handling | Information for safe handling: No special measures are required. No special precautions are necessary if used correctly. Information about protection against explosions and fires: No special measures required. |
| Storage | Requirements to be met by storerooms and receptacles: No special requirements. Store away from water reactive material such as strong acids or bases. Information about storage in one common storage facility: No special requirements. Store away from water reactive material such as strong acids or bases. Further information about storage conditions: Keep from freezing. Full containers may burst, solution expands upon freezing. |

| Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION | |
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| Engineering Controls | This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. |
| Personal Protection | If radioactive, take appropriate measures for radioactive spills. Splash Goggles Gloves Lab coats Shoe covering Personal dosimeter If not radioactive: Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation. |

| Section 9: PHYSICAL AND CHEMICAL PROPERTIES | |
|---|-----------------|
| Color | Clear/Off White |

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|-----------------------------|-------------------|
| Odor | Mild |
| Physical state | Liquid |
| pH | pH 4 to 7 |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Boiling Point | 212 ° F (100 ° C) |
| Freezing Point | 32 ° F (0 ° C) |
| Melting Point | 32 ° F (0 ° C) |
| Solubility | Water soluble |
| Specific Gravity or Density | .98 - 1.00 |

Section 10: STABILITY AND REACTIVITY

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| Stability | The product is stable. |
| Instability Temperature | No decomposition if used according to specifications. Freezing of full containers should be avoided. Expansion occurs at freezing temperatures and containers may burst. |
| Conditions of Instability | Water reactive materials. Strong Acids, Bases. May emit noxious gasses or steam. CHLORINE BLEACH NEUTRALIZES EFFECTIVENESS OF THE SOLUTION. |
| Incompatible with Various Substances | Water reactive materials. Strong Acids, Bases. May emit noxious gasses or steam. CHLORINE BLEACH NEUTRALIZES EFFECTIVENESS OF THE SOLUTION. |
| Dangerous Products of Decomposition | Carbon monoxide, Carbon dioxide |

Section 11: TOXICOLOGICAL INFORMATION

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| Acute Effects | Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation. |
| To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. | |

Section 12: ECOLOGICAL INFORMATION

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| General | Not known to be hazardous to water. |
| Ecotoxicity | Not available |
| BOD% and COD | Not available |
| Products of Biodegradation | Not available |
| Toxicity of the Products of Biodegradation | Not available |

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Section 13: DISPOSAL CONSIDERATIONS

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| Waste Disposal | If radioactive, treat as radioactive waste. No restrictions on disposal if not radioactive. |
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Section 14: TRANSPORTATION INFORMATION

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| DOT Classification | Not a DOT controlled material (United States). |
| Identification | Not applicable |
| Special Provisions for Transport | Not applicable |

Section 15: REGULATORY INFORMATION

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| Federal and State Regulations | No issue. |
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Section 16: OTHER INFORMATION

Revision Data:

| Date | Page/s involved | Details of Change | Prepared By |
|------------|-----------------|--|-------------|
| 03/29/2004 | All | Initial issue | C. Symmonds |
| 06/30/2004 | All | Updated RadDecon data- pages 1 & 4 & updated revision data on all pages. Section 3 and 10, modified incompatible to show Chlorine/Bleach. | C. Symmonds |
| 04/29/2005 | 1 | Section 1, updated address and telephone number for new location. | C. Symmonds |
| 07/27/05 | 1 | "Composition/Information on Ingredients" modified | C. Symmonds |
| 08/03/05 | All | Section 1- Product Name updated, Product use modified to show radioactive use, Add new 24/7 Emergency number, Sect. 2 – Add Prod. Composition by weight, Sect. #3 – Eliminate subsects. 1-3 and rewrite Label Precautionary Statement, Sect #4 – Rewrite subsect. #2, Sect #5 – Rewrite subsect. #1 - #4 and #6, Sect #6 – Rewrite to "Wipe up or dispose of down drain", Sect #7 – Rewritten, Sect #8 subsect. #2 - Add statement if not radioactive, Sect #9 – Add melting pt. and Specific Gravity values, Sect #10 – Rewrite subsects. 2-4, Sect. #11 – Rewrite subsect. #1, | B. Schmidt |
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NOTICE: All chemicals may pose unknown hazards and should be used with caution. This MSDS contains data based on our present knowledge, and is intended to be used only as a guide. Radiation Decontamination Solutions, LLC, assumes no responsibility or liability for the use of this product in intended or other methods.