

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 101A Dunbar Ave. Oldsmar, FL 34677 (813) 854-5100	Catalog Number	H32, H1G, H55G, H8
		IN CASE OF EMERGENCY CALL 1- 800- 460 - 8013 24 hrs/day, 7 days/wk	
Supplier	Radiation Decontamination Solutions, LLC 101A Dunbar Ave. 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	
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	
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	
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

Small and Large Spills	Person-related safety precautions: Not required Measures for environmental protection: No special measures Measures for cleaning/collecting: Wipe up or dispose of down drain.
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Section 7: HANDLING AND STORAGE

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

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

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

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

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

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

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

Section 15: REGULATORY INFORMATION

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

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.