

Hazardous Materials Decontamination Group Form

Date of Incident:	Time of Incident:	
Location of Incident:		
Decon. Supervisor:		
	<u>Functions</u>	
Report to HazMat Director:	4 - 6 Personnel Assigned:	
Don Vest:	Decon Group Data Sheet Completed:	
Determine Decon Needed:	Decon Established:	
Establish Decon Area:	HazMat Director Notified:	
PPE Selected:	Safety Officer Notified:	
	<u>Equipment</u>	
Water Supply:	Hose and Adaptors:	
Diking Material:	Plastic Bags:	
Template:	Spray Tanks:	
Plastic Sheeting:	Soap:	
Entry Markers:	Brushes:	
Pools:	Suit Doffing Seats:	
Shower Wands:	Absorbent Pads:	
	Diposable Clothing	
Gowns:	Shoes:	
Coveralls:		

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		Template for Gross Decon	
		20'	
		EXIT	
		CRITICAL TREATMENT AREA (If Needed)	
	SCBA	SCBA REMOVAL (If Safe)	CLEAN AREA
40'		GROSS DECON AREA (Diked Area)	
	CONTAMINATED CLOTHING	CLOTHING REMOVAL	
	CONTAMINATED EQUIPMENT		
	CONTAIVIINATED EQUIPIVIENT		
		ENTER	

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Template for Dry - Isolation/Disposal Decon

		20'	
		EXIT	
	SCBA	SCBA REMOVAL	CLEAN AREA
40'	CONTAMINATED CLOTHING	SUIT REMOVAL	
	CONTAMINATED EQUIPMENT		
		ENTER	

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		Template for Dilution Decon	
_		20'	
		EXIT	
		PERSONAL SHOWER (Off Site - If Possible)	
	SCBA	SCBA REMOVAL	CLEAN AREA
		POOL 2	
40'	CONTAMINATED CLOTHING		
		POOL 1	
	CONTAMINATED EQUIPMENT		
		ENTER	

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Decon Advantages and Disadvantages

Method	Advantages	Disadvantages	
Dilution	 Is a readily available solvent Generates no toxic fumes Minimal effect on protective clothing Usually available 	 Has solubility limitations Creates runoff May not change HazMat chemically Limited uses for protective clothing 	
Absorbtion	 Inexpensive Good for flat surface 	1. Does not alter that HazMat	
Chemical	Can decrease the level of risk to ERP	1. Takes time to set-up	
Degradation	1. Can limit clean-up cost	1. Can be harmful to ERP	
Isolation & Disposal	 Reduces clean-up time Reduces risk to ERP 	1. Permits may be required	

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Proper Decon Preparation

Nine Step Decon Procedure

Actions Enter Procedures

Personnel enter decon area and drop tools on contaminated side. Move to step 2.

Remove as much contamination as possible. Dilution is conducted inside diked area. Personnel are in SCBA, move to step 3.

Remove SCBA to contaminated side and move to step 4 or don new SCBA from clean side and re-enter work area. Move to step 4.

Remove protective clothing and place on contaminated side. Move to step 5 or transport personnel to fixed decon facility.

Remove all personal clothing and isolate items on contaminated side. Bag personal items, move to step 6.

Personal showering using soap and sponges. Bag cleaning items for disposal. Move to step 7.

Personal showering using soap and sponges. Bag cleaning items for disposal. Move to step 7.

Personnel dry off. Bag towels. Put on clean clothing. Move to step 8.

Personnel receive medical evaluation and treatment as necessary. Move to step 9.

Identify personnel. Complete field records. Transport personnel to hospital or to a fixed decon facility for steps 5 - 8.

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Guidelines for Preparing Decontamination Solution

WHEN DEALING WITH UNKNOWN UNDER EMERGENCY CONDITIONS

Decontamination solutions are normally solutions of water and chemical compounds designed to react with and neutralize specific contaminants. The temperature of the liquid and contact time should be given consideration to be sure complete neutralization has taken place. In some cases, firefighters may be faced with an unknown hazardous material and will require decontamination after leaving the "Hot Zone". The following solutions should be used for unknowns since they are effective for a variety of contaminants.

DECON SOLUTION A: A solution containing 5% Sodium Carbonate (Na2Co3) and 5% Trisodium Phosphate (Na3Po4). Mix four pounds commercial grade Na3Po4 with each 10 (ten) gallons of water. These chemicals are available in most hardware stores.

DECON SOLUTION B: A solution containing 10% Calcium Hypochlorite Ca(OCl)2. Mix eight pounds of Ca(OCl) 2 with each (ten) 10 gallons of water. Calcium Hypochlorite is commonly known as HTH and is available from swimming pool supply stores. Make sure you purchase HTH in plastic containers or transfer it from cardboard drums into clean plastic buckets marked "Oxidizer".

A general purpose rinse solution for both decon solutions is a 5% solution of Trisodium Phosphate. To prepare the rinse, mix four pounds of Na3Po4 with each 10 (ten) gallons of water.

DECON USING DECONTAMINATION CHEMICALS FOR KNOWN MATERIALS

Five general purpose decon solutions are available for ten basic hazard classes. These are:

DECON SOLUTION A: - A solution containing 5% Sodium Carbonate (Na2Co3) and 5% Trisodium Phosphate (Na3Po4).

DECON SOLUTION B: - A solution containing 10% Calcium Hypochlorite Ca(OCI)2.

DECON SOLUTION C: - A solution containing 5% Trisodium Phosphate (Na3Po4). This solution can also be used as a general purpose solution.

DECON SOLUTION D: - A dilute solution of vinegar (4-8% Acetic Acid). Mix two/three gallons of vinegar to ten (10) gallons of water. Stir with a wooden or plastic stirrer.

DECON SOLUTION E: - A concentrated solution of Tide or other detergent and water. Mix into a paste and scrub with a brush. Rinse with water.

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<u>B</u>	<u>C</u>	D	
Hoavy Motals		<u>_</u>	<u>E</u>
Heavy Metals, Mercury, Lead, Cadmium, etc.	Solvents and Organic Compounds such as Trichloroethylene, Chloroform and Toluene	Inorganic Bases, Alkali, Ammonia and Caustic Waste	Radioactive Materials
Pesticides, Chlorinated Phenols, Dioxins, PCBs	PCB, PBAA, PBD, PBI, PBPB		
Cyanides and other Non-Acidic Inorganics	Oily, Greasy Unspecified Wastes not Suspected to be Contaminated with Pesticides		
Etiologic Materials			
Unknown Substances			
	Pesticides, Chlorinated Phenols, Dioxins, PCBs Cyanides and other Non-Acidic Inorganics Etiologic Materials	Cadmium, etc. Trichloroethylene, Chloroform and Toluene Pesticides, Chlorinated, PCB, PBAA, PBD, PBI, PBPB Cyanides and other Non-Acidic Inorganics Cyan	Cadmium, etc. Trichloroethylene, Chloroform and Toluene Pesticides, Chlorinated Phenols, Dioxins, PCBs Cyanides and other Non-Acidic Inorganics Contaminated with Pesticides Etiologic Materials

Unknown Substances

CAUTION: The decontamination solutions listed above are recommended for ten general groups of hazardous materials. ALWAYS contact expert assistance from manufacturers, poison control centers, medical specialists, etc. to determine the best solution to use.

^{**} Note: A general purpose rinse solution for both decon solutions A and B is solution C.