



M.A.B.A.S. DIVISION VI

Hazardous Materials Response Guide

Responding to a known or suspected hazardous material release/spill, use the State wide 5 step process:

- I. Isolate
- II. Identify
- III. Notify
- IV. Mitigate
- V. Terminate

I. **ISOLATE:**

- A. Enroute
 1. Get weather info
 2. When approaching, slow down or stop to assess any activity taking place.
- B. Upon Arrival The first unit(s)
 1. Size up the situation
 2. Don't let anyone in or out, including us
 3. Emergency Beacon
 4. Don't get put into a dangerous situation via tunnel vision
 5. Get weather info, include wind speed
 6. Topography and location of the situation
 7. Establish a command post
3. Set up zones
 1. Use ERG
 - a. A need for Evacuation/Protect in Place or a combination
 - b. Evacuate e.g. Flammable Atmosphere
 - c. Protect in Place e.g. toxic cloud
 - d. Combination e.g. cloud passes then Evacuate

II. **IDENTIFY:**

- A. Identify priorities based on the following:
 1. Is the spill or release having the potential to be leaving the property causing harm to the public, and/or to the environment? If not this is probably not an emergency and not our problem. This doesn't mean we cannot help with info to assist with the clean up, e.g. calling EPA (they can provide #s for clean-up companies) and county EMA.
 2. The type and magnitude of life hazard involved.
 3. The type and quantity of hazardous material(s) involved

- B. "D.E.C.I.D.E."
1. **D**etect the presence of hazardous materials.
 2. **E**stimate potential harm without intervention.
 3. **C**hoose response objectives.
 4. **I**dentify action options.
 5. **D**o best option.
 6. **E**valuate progress.
- C. Location:
1. Roadway
 2. Railway
 3. Fixed site
 - a. Industrial
 - b. Warehouse
 - c. Mercantile
 4. Residential
 - a. Residential/mercantile
 - b. Subdivision, Homes
 - c. Apartments/Town homes
 5. Waterway
 6. Pipelines
- D. Container Shapes and Sizes
1. Appearance is a valuable clue to contents.
 2. Contents are as varied as the containers themselves.
 3. Labels or HMIS info
- E. Highway
1. Placards
 2. Box Trailer, Flatbed, Personal Vehicles, Dry Bulk, Van, Tank Trailer, Tube Trailer, and Intermodal
- F. Rail Transportation
1. Placards
 2. Large quantities of different hazardous products are transported by rail. Multiple cars and products can be in a single train.
 3. Often access to rail incidents is severely limited.
 4. In rail incidents there is a great potential for product mixing
 5. Rail car types: (similar to highway transports)
 6. Box Car, Flat Car, Hopper Car, Dry Bulk Car, Tank Car, Box Trailer, Flatbed, Personal Vehicles, Dry Bulk, Van, Tank Trailer, Tube Trailer, and Intermodal Tube Car, Intermodal Containers (Containers on flat cars / Trailers on flat cars)
- G. Waterway
1. Info on type of material in water
 2. Contact U.S. Coast Guard, EPA need to be contacted if a sheen is seen
 3. Fish and /or animal kill seen

- H. Pipelines
 1. Is it at a crossing?
 2. Is there a sign post with info?
 3. Above ground valve(s).

III. **NOTIFY:**

- A. Upgrade the response
 1. Call for Division XIII Haz-Mat Team, (Aurora Fire Dept.), through your dispatch, which will go through TRI-COM to Aurora Dispatch
 2. Kane County Office of Emergency Management

B. Contact Numbers:

Hazmat Team Division XIII Hmrt	Work	630-897-7940
Coordinator	Cell	630-688-0249
Lt. Joe Bartholomew	Fax	630-897-4147
Aurora Fire Department	Email	JBartholomew@aurora-il.org

If unsure of response needed- contact AFD Dispatch (**630-897-8805**), give them a contact name and number to have the on shift Haz Mat team leader, or senior member contact you. Explain the incident and the team leader will help you with response necessary.

Kane County Office of Emergency Management: Don Bryant Director	Work	630-232-5985
	Fax	630-232-7408
Kane County Health Dept. Michael Isaacson	Work	630-208-3801
Emergency Response Coordinator	Fax	630-208-5147
Illinois Department Nuclear Safety Office of Mitigation and Response: Darryl Dragoo Training Coordinator	Work	(217)-785-0600 or
	24-hour	(217) 785-5775
	Fax	(217) 524-0026
	Emergency phone:	847-705-4610
	Business phone:	847-705-4611
IDOT - IL Dept Of Transport Div Of Highways/District 1: 201 W Center Ct Schaumburg Il 60196	Cellular Telephone pager:	847-705-4000
	Backup pager ALT TX	
	24 hr tx	847-705-4612
	Weather condition	800-452-4368

IL Environmental Protection Agency	Telephone	800-782-7860
	Emergency Resp. Unit	217-782-3637
Illinois Public Health		312-293-6800
State ESDA Coordinator For All State Resources And Agencies EPA, State Police, & ESDA		800-782-7860
National Center For Disease Control		401-329-3311
	For Etiological	404-633-5313
Kane County Animal Control		630-232-3555
Aurora Animal Control Office		630-897-5695
National Weather Svc Hotline		815-834-0666 For wind direction, etc-more accurate
Romeoville 24-Hr Hotline		800-747-1470
NICOR-Northern Illinois		Alt Tx 892-8821 Emergency Tx On **Do Not Give To The Public Non-Emerg 888-642-6748
OSHA - Occupational Safety Health Administration		630-896-8700
U.S. Coast Guard		729-6190
	St Charles	986-2155
	Cell phone	
	all other times	630-606 7419
Postal Inspectors PO Box 7160 North Suburban, Il 60199-7160	Carol Stream TX	630-260-5677
	Fax	630-260-5332
National Agency for Toxic Substance Disease Registry (ATSDR)		1-404-639-0615
National Chem • Tel, Inc		1-800-255-3924
Chemtrec		1-800-424-9300
National Pesticide Telecommunications Network		1-800-858-7378
National Response Center		1-800-424-8802
State Fire Marshall		

State Fire Marshall
(Underground Tanks)

State Police

IV: Mitigate:

****NOTE**** - FF II training teaches foam operations and with your amount of foam on hand calculate a minimum of a 10 min. start to your operation with a 4 gas monitor to make sure of vapor reduction.

FLAMMABLE RANGES OF FLAMMABLE LIQUID FAMILIES

			<u>Polar / Non Polar</u>
Fuel Family	1 to 8%	Organic Acid	Super Duper Polar
Aromatic hydrocarbons	1 to 7%	Alcohol	Super Polar
Ketones	2 to 12%	Ketone	Polar
Esters	1 to 9%	Aldehyde	Polar
Amines	2 to 14%	Ester	Polar
Alcohols	1 to 36%	Amine	Slightly Polar
Ethers	2 to 48%	Ether	Non Polar
Aldehydes	3 to 55%	Nitro	Non Polar
Acetylene	2 to 85%	Alkyl Halide	Non Polar
		Organic Peroxide	Non Polar
		Hydrocarbons	Non Polar

V. Using the acronym **TAPES**

A. **TRAINING:**

1. Technician Trained Personnel
 - a. Offensive
 - b. Defensive
 - c. Non-Intervention
 - 8/12hr Awareness Class
 - 40hr Operations Class
 - 45hr Technician A Class
 - 40hr Technician B Class

****NOTE**** **Certified Technicians Will Operate In The Hot Zone**

2. Operations Trained Personnel
 - a. Defensive
 - b. Non-Intervention
 - 8/12hr Awareness Class

- 40hr Operations Class
3. Awareness Trained Personnel
 - a. Non-Intervention
 - 8 / 12hr Awareness Class
- B. APPARATUS:**
1. Type of vehicle(s) responding
- C. PERSONNEL:**
1. Numbers of, training, and experience.
- D. EQUIPMENT:**
1. PPE, SCBA, tools, and Monitoring, (Radiation, PH, 4 Gas, Toxicity)
- E. SAFETY:**
1. All operations up to and including the evacuation Process must be accomplished with Safety as the key component.
 2. Members shall wear the appropriate PPE
 3. Be alert for the symptoms of chemical poisoning and Reactions that could threaten the lives of Firefighters and other involved personnel.
 4. Avoid inhalation of all gases, fumes and smoke even if no hazardous materials are involved.
 5. Do not assume that gases or vapors are harmless because of lack of smell.
 6. Keep in mind the basic safety priorities:
 - a. Personnel safety.
 - b. Safety of others.
 - c. Environmental impact.

VI. Termination

- A. Who will clean up**
1. If you call the clean up crew “You Pay”
 2. IEPA has a list or spiller can call his own
 - a. Who ever cleans up and will be hauling the hazmat away will have to have the proper paperwork.
 3. A crew may have to stay while clean up is being done

EMERGENCY RESPONSE CONTRACTOR LIST
Updated 09/12/03

This list includes those contractors obtained from Yellow Page directories and does not purport to be an endorsement of their qualifications or capabilities. We suggest that interested parties do their own evaluation of suitability before making a selection.

<u>NAME/ADDRESS</u>	<u>TELEPHONE</u>
American Waste Processing, Ltd. 2006 - 2010 W. Madison Street Maywood, IL 60153	Office: (708) 681-3999 24 Hour: (708) 681-3999 Fax: (708) 681-5583
Best Corporation P.O. Box 576 Channahon, IL 60410	Office: (815) 725-1554 24 Hour: (815) 725-1554 Fax: (815) 476-6878
Clean Harbors Environmental 11800 South Stony Island Avenue Chicago, IL 60617	Office: (773) 646-6202 24 Hour: (773) 646-5111 Fax: (773) 646-0026
Environmental Contractors, Inc. 5290 Nimitz Road Loves Park, IL 61111	Office: (815) 654-4726 24 Hour: (815) 654-4726 Fax : (815) 654-4736
ERS of Illinois, Inc. 2270 Cornell Avenue Montgomery, IL 60538	Office: (630) 896-4090 24 Hour: (630) 896-4090 Fax: (630) 896-4099
Hazchem Environmental Corporation 1115 West National Avenue Addison, IL 60101	Office: (630) 458-1910 24 Hour: (630) 458-1910 Fax: (630) 458-1918
Heritage Remediation/Engineering 1319 Marquette Drive Romeoville, IL 60441	Office: (630) 378-1600 24 Hour: (800) 48-SPILL Fax : (630) 378-2200
H.M.H.T.T.C. P.O. Box 1594 Calumet City, IL 60409-1594	Office: (219) 977-8847 24 Hour: (800) 927-9303 Fax: (219) 977-8996
IT Corporation 1334 Enterprise Drive Romeoville, IL 60441	Office: (630) 759-9462 24 Hour: (800) 537-9540
North Branch Environmental 7 N 458 Garden Avenue Roselle, IL 60172	Office: (630) 529-0240 24 Hour: (800) 281-0240 Fax: (630) 529-0837
Onyx Industrial Services 14617 South New Avenue Lockport, IL 60441	Office: (815) 836-8813 24 Hour: (815) 836-8813 Fax : (815) 836-8879
SET Environmental, Inc. 350 Sumac Road Wheeling, IL 60090	Office: (847) 537-9221 24 Hour: (847) 520-2268 Fax: (847) 537-9265
Trans Environmental, LLC 4722B Rockton Road Roscoe, IL 61073	Office: (815) 624-0900 24 Hour: (888) 266-1564 Fax: (815) 624-4945
U. S. Liquids, Inc. 5051 South Western Avenue Chicago, IL 60617	Office: (773) 778-1400 24 Hour: (773) 778-1400

REQUIREMENTS FOR SPILL REMEDIATION WORK

1. Notify local Fire/Police units for assistance if needed.
2. When appropriate, report incident to the Illinois Emergency Management Agency (IEMA) at 1-800-782-7860, or 1-217-782-7860 outside of Illinois, and obtain an incident number. Contact IEMA for assistance in reporting requirements.
3. Arrange and affect cleanup within a timely manner.
4. Remedial personnel must have appropriate training and all required safety equipment as warranted by the nature of the spill.
5. Licensed special waster haulers must conduct transportation of special waste. (Sec. 809.201) Hazardous waste haulers must handle hazardous waste.
6. All shipments of special waste must be accompanied by a manifest (Sec 809.301). The manifest must contain both a site-specific State Generator ID number and a waste stream authorization number. If the material is hazardous, it must also contain a Federal Generator ID number.
7. The treatment, storage, or disposal (TSD) facility may require a representative sample and analysis before they will accept the waste.
8. The TSD facility within Illinois must have a valid operating permit, and the necessary special waste permits for each individual waste stream. (Sec 809.302).
9. Upon request by the TSD facility, the Illinois EPA-Emergency Operations Unit (IEPA-EOU) may provide an emergency Illinois Generator ID number for the spill site. If the material is hazardous, the IEPA-ERU can also supply an emergency Federal Generator ID number. To qualify for emergency numbers, the existence of an environmental emergency must be demonstrated. Call (217) 782-3637 for details.
10. Generic clean-up standards can be obtained from the agency by calling (217) 782-3637.
11. The State of Illinois publishes a booklet entitled "How to Select an Environmental Consultant". This booklet is available from the following agencies at the following numbers:
 - Illinois Department of Commerce and Community Affairs, Small Business Environmental Assistance Program: 217/785-4557.
 - Illinois Environmental Protection Agency, Small Business Office: 217/524-3333.
 - Illinois Department of Energy and Natural Resources, Hazardous Waste Research and Information Center: 217/333-8569.

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