

EMERGENCY SCHEDULE 5.1-09

AMMONIUM PERCHLORATE

Special Emergency Equipment to be carried		
Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear self-contained breathing apparatus when dealing with FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Keep spillage wet. Wash spillage overboard with copious quantities of water.	Keep spillage wet. Collect spillage, where practicable, in plastics receptacles for safe disposal.
FIRE	If possible remove receptacles likely to be involved in a fire or keep them cool with copious quantities of water. If the fire reaches the substance, risk of mass explosion arises. In such a case abandoning ship should be considered.	
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.1-10

OXIDIZING SUBSTANCES CARRIED IN A MOLTEN STATE; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Full protective clothing (gloves, boots, coveralls, headgear, goggles). Self-contained breathing apparatus.		
<i>EMERGENCY PROCEDURES</i>		
Wear full protective clothing when dealing with SPILLAGE. Wear protective clothing and self-contained breathing apparatus when dealing with FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash spillage overboard using copious quantities of water.	Not applicable.
FIRE	Use copious quantities of water from as far away as practicable. In case of a major fire or a decomposition, drain the tank and jettison the contents. If possible open the manhole covers of the tank.	
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.1-11

OXIDIZING SUBSTANCES, NOT OTHERWISE SPECIFIED

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Inert absorbent material (e.g. diatomaceous earth).		
EMERGENCY PROCEDURES		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
EMERGENCY ACTION		
Turn ship off wind. Some substances may explode in a fire situation.		
	On deck	Under deck
SPILLAGE	Wash spillage overboard with copious quantities of water from as far away as practicable. Contaminated clothing must be removed and washed carefully with copious quantities of water.	Collect spillage, where practicable, using inert absorbent material for liquids, for safe disposal. Do not repack. Do not use sawdust or other combustible materials as absorbents. Contaminated clothing must be removed and washed carefully with copious quantities of water.
FIRE	Use copious quantities of water from as far away as practicable. Remove receptacles likely to be involved or keep them cool with copious quantities of water.	Ship's fixed fire-fighting installation may not be effective. Adopt action as for "On deck".
First Aid - See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-01

ORGANIC PEROXIDES IN PACKAGINGS; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
EMERGENCY PROCEDURES		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
EMERGENCY ACTION		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).		
	On deck	Under deck
SPILLAGE	Wash overboard with copious quantities of water. Dispose of leaking packages.	Not applicable.
SMOKE EVOLUTION	Turn ship off wind. Cool down packages or freight container using copious quantities of water from a protected position. Contact the manufacturer. Do not open freight container until well after smoke evolution has ceased. Cool down smoking and bulged packages with water. Dispose of bulged or leaking packages and residues.	Not applicable
FIRE	Use water spray from a protected position, as far away as practicable. Do NOT use water jet. Keep surrounding areas cool with copious quantities of water. Contact the manufacturer. After the fire has been extinguished the freight container may be approached. If possible, keep contents cool with copious quantities of water for several hours. Dispose of residues if practicable. Clean the area thoroughly.	Not applicable
First Aid - See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-02

ORGANIC PEROXIDES, TEMPERATURE CONTROLLED, IN PACKAGINGS; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools). Check temperature reading if possible.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Leave freight container closed. Wash spillage overboard with copious quantities of water.	Not applicable
TEMPERATURE INCREASE	If the control temperature is exceeded, the refrigeration unit has to be inspected (consult manual). Log the temperature frequently. If the temperature control cannot be restored, the manufacturer should be consulted. When smoke is observed, follow guidelines for smoke evolution. If the emergency temperature is reached and no smoke is observed, the packages should be taken one by one and directly lowered over the side of the ship.	Not applicable
SMOKE EVOLUTION	Turn ship off wind. Contact the manufacturer as soon as possible. The freight container should not be approached until well after smoke evolution has ceased. Check refrigeration system. Follow guidelines for temperature increases.	Not applicable
FIRE	Use water spray from a protected position, as far away as practicable. Do NOT use water jet. Contact the manufacturer as soon as possible. After the fire has been extinguished, the freight container should be kept under surveillance.	Not applicable
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-03

ORGANIC PEROXIDES IN IBCs; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Stop leak if practicable. Wash spillage overboard with copious quantities of water.	Not applicable
SMOKE EVOLUTION	Turn ship off wind. Cool down freight container using copious quantities of water from a protected position. Contact the manufacturer. Do not open freight container until well after smoke evolution has ceased.	Not applicable
FIRE	Use water spray from a protected position, as far away as practicable. Do NOT use water jet. Keep surrounding areas cool with copious quantities of water. Contact the manufacturer. After the fire has been extinguished, the freight container may be approached. If possible, keep contents cool with copious quantities of water for several hours. Dispose of residues if practicable. Clean the area thoroughly.	Not applicable
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-04

ORGANIC PEROXIDES IN IBCs, TEMPERATURE CONTROLLED; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools). Check temperature reading if possible.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash spillage overboard with copious quantities of water. Doors of freight containers may be opened briefly to stop leak if practicable.	Not applicable
TEMPERATURE INCREASE	If the control temperature is exceeded, the refrigeration unit has to be inspected (consult manual). Log the temperature frequently. If the temperature control cannot be restored, the manufacturer should be consulted. If the emergency temperature is reached, the doors may be opened. When smoke is observed, follow guidelines for smoke evolution.	Not applicable
SMOKE EVOLUTION	Turn ship off wind. Contact the manufacturer as soon as possible. The freight container should not be approached until well after smoke evolution has ceased. Check refrigeration system. Inspect the contents of the freight container briefly and leave the doors open if the damage is substantial. Keep the freight container under surveillance.	Not applicable
FIRE	Use water spray from a protected position, as far away as practicable. Do NOT use water jet. Contact the manufacturer as soon as possible. After the fire has been extinguished, the freight container should be kept under surveillance.	Not applicable
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-05

ORGANIC PEROXIDES IN TANKS; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Stop leak if practicable. Wash spillage overboard with copious quantities of water.	Not applicable
SMOKE EVOLUTION	Turn ship off wind. Keep area isolated as fluid ejection from bursting disc(s) might take place. Cool down tank with copious quantities of water from a protected position. Contact the manufacturer as soon as possible. Even when smoke evolution has ceased, cooling of the tank should be continued until the temperature of the contents is below 50°C. After this, the tank may be inspected and repaired if practicable. Check the temperature of the contents frequently and cool tank with copious quantities of water if temperature increases.	Not applicable
FIRE	Keep area isolated as fluid ejection from bursting disc(s) might take place. Use water spray from a protected position to extinguish the fire. Contact the manufacturer as soon as possible. Cooling of the tank should be continued until the temperature of the contents is below 50°C. Inspect and repair tank if practicable. Check temperature frequently and cool with copious quantities of water when necessary.	Not applicable
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 5.2-06

ORGANIC PEROXIDES IN TANKS, TEMPERATURE CONTROLLED; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective gloves, boots and goggles. Self-contained breathing apparatus. Spray nozzles.		
EMERGENCY PROCEDURES		
Wear protective gloves, boots and goggles when dealing with SPILLAGE and, additionally, self-contained breathing apparatus when dealing with SMOKE EVOLUTION or FIRE.		
EMERGENCY ACTION		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools). Check temperature reading if possible.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Stop leak if practicable. Wash spillage overboard with copious quantities of water.	Not applicable
TEMPERATURE INCREASE	If the control temperature is exceeded, the refrigeration unit has to be inspected (consult manual). Log the temperature frequently. If temperature control cannot be restored, the manufacturer should be consulted. If the emergency temperature is reached, the tank has to be isolated. When smoke is observed, follow guidelines for smoke evolution.	Not applicable
SMOKE EVOLUTION	Turn ship off wind. Keep area isolated as fluid ejection from bursting disc(s) might take place. Direct water spray from a protected position at the smoke. Consult the manufacturer as soon as possible. Even when smoke evolution has ceased, water spray should be continued for some hours as new smoke evolution might take place.	Not applicable
FIRE	Keep area isolated as fluid ejection from bursting disc(s) might take place. Use water spray from a protected position, as far away as possible. Contact the manufacturer as soon as possible. Even when fire has been extinguished, water spray should be continued for some hours as smoke evolution might still take place.	Not applicable
First Aid – See IMO Medical First Aid Guide (MFAG)		

CLASS 6

EMERGENCY SCHEDULE 6.1-01

TOXIC LIQUIDS, INCLUDING SUBSTANCES WHICH MAY LIQUEFY DURING TRANSPORT, FLAMMABLE, FLASHPOINT 61°C c.c. OR BELOW

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
EMERGENCY PROCEDURES		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
EMERGENCY ACTION		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools). Turn ship off wind.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Collect spillage, where practicable, using absorbent material for safe disposal. Wash remainder overboard with copious quantities of water.	Provide adequate ventilation. Collect spillage, where practicable, using absorbent material, for safe disposal.
FIRE	Use water spray. Do <i>NOT</i> use water jet. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

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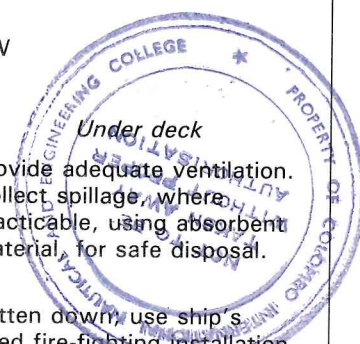
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UN No.	Substance or Article	Remarks
1051	HYDROGEN CYANIDE, ANHYDROUS, STABILIZED	Spillage may be gaseous.
1259	NICKEL CARBONYL	Possible self-ignition at high ambient temperatures.
1577	CHLORODINITROBENZENES, LIQUID or SOLID	} In fire, explosion hazard.
1597	DINITROBENZENES, LIQUID	
1600	DINITROTOLUENES, MOLTEN	
1614	HYDROGEN CYANIDE, ANHYDROUS, STABILIZED, absorbed in a porous inert material	Spillage may be gaseous.
1994	IRON PENTACARBONYL	Possible self-ignition at high ambient temperatures.
2038	DINITROTOLUENES, LIQUID	In fire, explosion hazard.

EMERGENCY SCHEDULE 6.1-02

TOXIC LIQUIDS, INCLUDING SUBSTANCES WHICH MAY LIQUEFY DURING TRANSPORT, NOT COVERED BY OTHER SCHEDULES

Special Emergency Equipment to be carried	
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus.	
EMERGENCY PROCEDURES	
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.	
EMERGENCY ACTION	
Turn ship off wind.	
<i>On deck</i>	
SPILLAGE	Collect spillage, where practicable, using absorbent material for safe disposal. Wash remainder overboard with copious quantities of water.
FIRE	Use copious quantities of water or other media to fight fire. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water.
<i>Under deck</i>	
SPILLAGE	Provide adequate ventilation. Collect spillage, where practicable, using absorbent material for safe disposal.
FIRE	Batten down, use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid - See IMO Medical First Aid Guide (MFAI)	



UN No.	Substance or Article	Remarks
-	METHYLBROMOACETONE	} Spillage may be gaseous.
1647	METHYL BROMIDE AND ETHYLENE DIBROMIDE MIXTURES, LIQUID	
1693	TEAR GAS SUBSTANCES, LIQUID, N.O.S.	
2017	AMMUNITION, TEAR PRODUCING, NON-EXPLOSIVE, with neither burster nor expelling charge, non-fuzed	

EMERGENCY SCHEDULE 6.1-03

TOXIC SOLIDS, FLAMMABLE

Special Emergency Equipment to be carried	
Full protective clothing (gloves, boots, coveralls, headgear, goggles). Self-contained breathing apparatus. Spray nozzles.	
<i>EMERGENCY PROCEDURES</i>	
Wear full protective clothing when dealing with SPILLAGE. Wear protective clothing and self-contained breathing apparatus when dealing with FIRE.	
<i>EMERGENCY ACTION</i>	
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).	
<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Collect spillage, where practicable, for safe disposal. Wash remainder overboard with copious quantities of water.
FIRE	Use water spray from as far away as practicable. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water.
	Collect spillage, where practicable, for safe disposal.
	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)	

UN No.	Substance or Article	Remarks
1567	BERYLLIUM POWDER	Water used on the burning substance may cause a violent reaction. Carbon dioxide unsuitable for fire, use inert material. Wear self-contained breathing apparatus when dealing with spillage.
1596	DINITROANILINES	In fire, explosion hazard.

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UN No.	Substance or Article	Remarks
1597	DINITROBENZENES, SOLID	In fire, explosion hazard. In fire, explosion hazard. Keep spillage wet with water.
1687	SODIUM AZIDE	
1693	TEAR GAS SUBSTANCES, SOLID, N.O.S.	} Spillage may be gaseous. Turn ship off wind.
1700	TEAR GAS CANDLES, non-explosive.	
1843	AMMONIUM DINITRO-ortho-CRESOLATE, SOLID	} In fire, explosion hazard.
2038	DINITROTOLUENES, SOLID	

EMERGENCY SCHEDULE 6.1-04

TOXIC SOLIDS, NOT COVERED BY OTHER SCHEDULES

Special Emergency Equipment to be carried	
Full protective clothing (gloves, boots, coveralls, headgear, goggles). Self-contained breathing apparatus.	
<i>EMERGENCY PROCEDURES</i>	
Wear full protective clothing when dealing with SPILLAGE. Wear protective clothing and self-contained breathing apparatus when dealing with FIRE.	
<i>EMERGENCY ACTION</i>	
	<i>On deck</i>
	<i>Under deck</i>
SPILLAGE	Collect spillage, where practicable, for safe disposal. Wash remainder overboard with copious quantities of water.
FIRE	Use copious quantities of water or other medium to fight fire and cool down receptacles.
	Collect spillage, where practicable, for safe disposal.
	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)	

UN No.	Substance or Article	Remarks
1566	BERYLLIUM COMPOUNDS, N.O.S.	Wear self-contained breathing apparatus when dealing with spillage.
1598	DINITRO-ortho-CRESOL	In fire, explosion hazard.
1642	MERCURY OXYCYANIDE, DESENSITIZED	In fire, explosion hazard.
2212	ASBESTOS, BLUE	} Wear self-contained breathing apparatus when dealing with spillage.
2590	ASBESTOS, WHITE	
2727	THALLIUM NITRATE	In fire situation, use copious quantities of water. Ship's fixed fire-fighting installation may not be effective.
2969	CASTOR BEANS	} Wear self-contained breathing apparatus when dealing with spillage.
3048	ALUMINIUM PHOSPHIDE PESTICIDES	

EMERGENCY SCHEDULE 6.1-05

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EmS DELETED

TOXIC SUBSTANCES, DANGEROUS WHEN WET

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Dry chemical.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools). Turn ship off wind.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Collect spillage, where practicable, for safe disposal. Keep water away unless to wash remainder of spillage overboard with copious quantities of water.	Provide adequate ventilation. Keep dry. Collect spillage, where practicable, for safe disposal.
FIRE	Use dry chemical. If possible remove receptacles likely to be involved.	Batten down; use ship's fixed fire-fighting installation (not water). Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 6.1-08

TOXIC SUBSTANCES, SELF-HEATING

Special Emergency Equipment to be carried

Protective clothing (gloves, boots, coveralls, headgear).
Self-contained breathing apparatus.
Spray nozzles.

EMERGENCY PROCEDURES

Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.

EMERGENCY ACTION

On deck

Under deck

SPILLAGE	Wash spillage overboard with copious quantities of water.	Keep spillage wet and dispose of safely.
FIRE	Use water spray from as far away as practicable.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".

First Aid – See IMO Medical First Aid Guide (MFAG)

EMERGENCY SCHEDULE 6.2-01

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RESERVED

CLASS 7

EMERGENCY SCHEDULE 7-01

RADIOACTIVE MATERIALS, FISSILE, N.O.S.,
RADIOACTIVE MATERIALS, N.O.S., and
RADIOACTIVE MATERIALS, SPECIAL FORM, N.O.S.,
transported in Type A or Type B packages and packages for fissile material
UN No. 2918
UN No. 2982
UN No. 2974

Special Emergency Equipment to be carried

Protective clothing (gloves, boots, coveralls, headgear).
Self-contained breathing apparatus.
Inert absorbent material (e.g. diatomaceous earth).

EMERGENCY PROCEDURES

Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.

EMERGENCY ACTION

Type B packages are designed and constructed to withstand severe accidents including FIRE. Do not touch damaged packages or spilt material. Isolate area around damaged packages. Limit entry to shortest time possible.

	<i>On deck</i>	<i>Under deck</i>
LOSS OF SHIELDING	An external radiation hazard may exist if the substance has been separated from the shielding or if the shielding has been damaged. In this case isolate area and seek expert advice.	Adopt action as for "On deck".
SPILLAGE	Cover liquid spill with inert absorbent material. Sheet over packages and contents to protect and avoid dispersal. Speedily collect and isolate potentially contaminated equipment and sheet over. Seek expert advice.	Adopt action as for "On deck".
FIRE	Use water jets from as far away as practicable. Keep adjacent receptacles cool. Speedily collect and isolate potentially contaminated equipment and sheet over. If possible remove receptacles likely to be involved. Seek expert advice.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".

First Aid – See IMO Medical First Aid Guide (MFAG)

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Possible restowage of fissile packages

Check transport documents which will indicate which packages are involved. If packages are restowed the following procedures should be followed:

1. If labels are legible, restow in groups of up to 50 transport indices with not less than 6 m separation between groups. Other neutral cargo may be stowed between groups.
2. If labels are not legible, stow packages singly at not less than 6 m separation. Other neutral cargo may be stowed between packages.

EMERGENCY SCHEDULE 7-02

RADIOACTIVE MATERIALS, LOW SPECIFIC ACTIVITY MATERIAL (LSA) N.O.S. and
RADIOACTIVE MATERIALS, SURFACE CONTAMINATED OBJECTS (SCO)
UN No. 2912
UN No. 2913

Special Emergency Equipment to be carried

Protective clothing (gloves, boots, coveralls, headgear).
Self-contained breathing apparatus.
Spray nozzles.
Inert absorbent material (e.g. diatomaceous earth).

EMERGENCY PROCEDURES

Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.

EMERGENCY ACTION

Do not touch damaged packages or spilt material.
Isolate area around damaged packages.
Limit entry to shortest time possible.

On deck

Under deck

SPILLAGE Cover liquid spill with inert absorbent material. Sheet over packages and contents to protect and avoid dispersal. Collect and isolate potentially contaminated equipment and sheet over. Seek expert advice.

Adopt action as for "On deck".

FIRE Use water spray. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water. Collect and isolate potentially contaminated equipment and sheet over. Seek expert advice.

Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".

First Aid – See IMO Medical First Aid Guide (MFAG)

EMERGENCY SCHEDULE 7-03

RADIOACTIVE MATERIALS, THORIUM METAL or URANIUM METAL, PYROPHORIC
UN No. 2975
UN No. 2979

STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles. Inert absorbent material (e.g. diatomaceous earth).		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Substance may burn fiercely.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Smother with inert absorbent material. Dispose of overboard in a safe manner. Remove undamaged receptacles to a safe place.	Not applicable.
FIRE	For small fires, use inert material. For large fires, use water spray from as many hoses as possible from as far away as practicable. Keep adjacent receptacles cool until well after fire is extinguished. If possible remove receptacles likely to be involved. Material may re-ignite after fire is extinguished. Dispose of remaining substance overboard in a safe manner.	Not applicable.
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 7-04

RADIOACTIVE MATERIALS, URANIUM HEXAFLUORIDE, FISSILE, FISSILE EXCEPTED or NON-FISSILE
UN No. 2977
UN No. 2978

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Spillage will be corrosive.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water from as far away as possible. Do not direct water jets onto leak area. Do not allow water inside receptacles. Seek expert advice.	Collect spillage for safe disposal.
FIRE	If possible remove receptacles likely to be involved or keep them cool with copious quantities of water. Water spray may be used to reduce vapours. Seek expert advice.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

Possible restowage of fissile packages

Check transport documents which will indicate which packages are involved. If packages are restowed the following procedures should be followed:

1. If labels are legible, restow in groups of up to 50 transport indices with not less than 6 m separation between groups. Other neutral cargo may be stowed between groups.
2. If labels are not legible, stow packages singly at not less than 6 m separation. Other neutral cargo may be stowed between packages.

EMERGENCY SCHEDULE 7-05

RADIOACTIVE MATERIALS, THORIUM NITRATE, SOLID or URANYL NITRATE, SOLID
UN No. 2976
UN No. 2981

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Collect spillage for safe disposal. Wash remainder overboard with copious quantities of water. Do not use sawdust or other combustible materials as absorbents. Contaminated clothing must be removed and washed carefully with copious quantities of water.	Collect spillage for safe disposal. Do not use sawdust or other combustible materials as absorbents. Contaminated clothing must be removed and washed carefully with copious quantities of water.
FIRE	Use copious quantities of water to fight a fire. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water.	Ship's fixed fire-fighting installation may not be effective. Adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 7-06

RADIOACTIVE MATERIALS, URANYL NITRATE HEXAHYDRATE SOLUTION
UN No. 2980

STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Spillage will be corrosive.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water.	Not applicable.
FIRE	If possible remove receptacles likely to be involved or keep them cool with water.	Not applicable.
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 7-07

RADIOACTIVE MATERIALS, EXCEPTED PACKAGES
UN No. 2910

Special Emergency Equipment to be carried

Protective gloves and boots.
Self-contained breathing apparatus.
Inert absorbent material (e.g. diatomaceous earth).

EMERGENCY PROCEDURES

Wear protective gloves, boots and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.

EMERGENCY ACTION

On deck

Under deck

SPILLAGE	Collect spillage for safe disposal. Wash remainder overboard with copious quantities of water.	Collect spillage for safe disposal. For liquid spills collect with inert absorbent material. Sheet over spill area.
FIRE	Use copious quantities of water to fight fire. If possible, remove receptacles likely to be involved.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".

First Aid – See IMO Medical First Aid Guide (MFAG)

EMERGENCY SCHEDULE 7-08

EmS DELETED

EMERGENCY SCHEDULE 8-02

STRONG CORROSIVE SUBSTANCES, COMBUSTIBLE; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Use of water on substance may cause violent reaction. Turn ship off wind.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water from as far away as practicable.	Not applicable.
FIRE	Use water spray; wash deck in vicinity with copious quantities of water from as far away as possible.	Not applicable.
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 8-03

STRONG CORROSIVE SUBSTANCES, NON-COMBUSTIBLE; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Turn ship off wind.		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Use of water on substance may cause violent reaction. Wash overboard with copious quantities of water from as far away as practicable.	Not applicable.
FIRE	If possible remove receptacles likely to be involved or keep them cool with water.	Not applicable.
First Aid – See IMO Medical First Aid Guide (MFAG)		

UN No.	Substance or Article	Remarks
1754	CHLOROSULPHONIC ACID	} Very violent reaction with water; avoid water, if possible use soda ash to neutralize spillage.
2692	BORON TRIBROMIDE	

EMERGENCY SCHEDULE 8-04

CORROSIVE SUBSTANCES, FLAMMABLE, FLASHPOINT 61°C c.c. OR BELOW

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water.	Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.
FIRE	Use water spray.	Batten down, use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 8-05

CORROSIVE SUBSTANCES, COMBUSTIBLE

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water.	Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.
FIRE	Use water spray.	Batten down, use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

UN No.	Substance or Article	Remarks
1779	FORMIC ACID	} Turn ship off wind.
1940	THIOGLYCOLIC ACID	
2028	BOMBS, SMOKE, NON-EXPLOSIVE	
2262	N,N-DIMETHYLCARBAMOYL CHLORIDE	
2565	DICYCLOHEXYLAMINE	

EMERGENCY SCHEDULE 8-06

CORROSIVE SUBSTANCES, NON-COMBUSTIBLE

Special Emergency Equipment to be carried	
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Inert absorbent material (e.g. diatomaceous earth). Spray nozzles.	
<i>EMERGENCY PROCEDURES</i>	
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.	
<i>EMERGENCY ACTION</i>	
<i>On deck</i>	<i>Under deck</i>
SPILLAGE Use of water on substance may cause violent reaction. Wash overboard with copious quantities of water from as far away as practicable.	Collect spillage, where practicable, using inert absorbent material for liquids, for safe disposal.
FIRE If possible remove receptacles likely to be involved or keep them cool with water.	Adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)	

UN No.	Substance or Article	Remarks
1725	ALUMINIUM BROMIDE, ANHYDROUS	} Turn ship off wind.
1726	ALUMINIUM CHLORIDE, ANHYDROUS	
1740	BIFLUORIDES, N.O.S.	
1768	DIFLUOROPHOSPHORIC ACID, ANHYDROUS	
1775	FLUOROBORIC ACID	
1776	FLUOROPHOSPHORIC ACID, ANHYDROUS	

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UN No.	Substance or Article	Remarks
1778	FLUROSILICIC ACID	} Turn ship off wind.
1782	HEXAFLUOROPHOSPHORIC ACID	
1829	SULPHUR TRIOXIDE, INHIBITED	
1831	SULPHURIC ACID, FUMING	
2331	ZINC CHLORIDE, ANHYDROUS	
2475	VANADIUM TRICHLORIDE	
2503	ZIRCONIUM TETRACHLORIDE	
2670	CYANURIC CHLORIDE	
2672	AMMONIA SOLUTIONS, with more than 10% but not more than 35% ammonia	
2691	PHOSPHORUS PENTABROMIDE	

EMERGENCY SCHEDULE 8-07

MILD CORROSIVE SUBSTANCES, COMBUSTIBLE

Special Emergency Equipment to be carried		
Protective gloves and goggles. Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves and goggles when dealing with SPILLAGE. Wear protective gloves and self-contained breathing apparatus when dealing with FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water.	Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.
FIRE	Use water spray.	Batten down, use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 8-08

MILD CORROSIVE SUBSTANCES, NON-COMBUSTIBLE

Special Emergency Equipment to be carried		
Protective gloves and goggles. Self-contained breathing apparatus.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves and goggles when dealing with SPILLAGE. Wear protective gloves and self-contained breathing apparatus when dealing with FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water.	Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.
FIRE	If possible remove receptacles likely to be involved or keep them cool with water.	Adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

UN No.	Substance or Article	Remarks
1845	CARBON DIOXIDE, SOLID	Avoid all skin contact. No action necessary in fire situation.

EMERGENCY SCHEDULE 8-09

EmS DELETED

EMERGENCY SCHEDULE 8-10

BATTERIES

Special Emergency Equipment to be carried

Protective gloves and goggles.

EMERGENCY PROCEDURES

Wear protective gloves and goggles when dealing with SPILLAGE.

EMERGENCY ACTION

On deck

Under deck

SPILLAGE	Wash overboard with copious quantities of water.	Collect spillage, where practicable, using absorbent material and dispose of overboard in a safe manner.
FIRE	No special precautions necessary.	No special precautions necessary.

First Aid – See IMO Medical First Aid Guide (MFAG)

EMERGENCY SCHEDULE 8-11

HYDRAZINE, HYDRATE or HYDRAZINE AQUEOUS SOLUTIONS with not more than 64% hydrazine, by mass (UN No. 2030)

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots coveralls, headgear). Self-contained breathing apparatus. Spray nozzles.		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Wash overboard with copious quantities of water from as far away as practicable.	Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.
FIRE	Use water spray from as many hoses as possible from as far away as practicable.	Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 8-12

GALLIUM AND MERCURY

Special Emergency Equipment to be carried		
Protective gloves. Self-contained breathing apparatus. Sand. Cleaning-up material (e.g. zinc dust, sulphur).		
<i>EMERGENCY PROCEDURES</i>		
Wear protective gloves when dealing with SPILLAGE. Wear self-contained breathing apparatus when dealing with FIRE in adjacent cargoes.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Attempt to contain with wet sand. Recover if possible; otherwise treat with the appropriate material.	Attempt to contain with wet sand. Recover if possible; otherwise treat with the appropriate material.
FIRE	Keep cool.	Non-combustible. Evolves toxic vapours.
First Aid – See IMO Medical First Aid Guide (MFAG)		

EMERGENCY SCHEDULE 8-13

MOLTEN CORROSIVE SUBSTANCES; STOWAGE "ON DECK ONLY"

Special Emergency Equipment to be carried		
Protective clothing (gloves, boots, coveralls, headgear). Self-contained breathing apparatus. Spray nozzles. Inert material (e.g. sand).		
<i>EMERGENCY PROCEDURES</i>		
Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.		
<i>EMERGENCY ACTION</i>		
	<i>On deck</i>	<i>Under deck</i>
SPILLAGE	Contain molten product if practicable using inert material. Collect solid material for safe disposal.	Not applicable.
FIRE	Use water spray.	Not applicable.
First Aid – See IMO Medical First Aid Guide (MFAG)		

UN No.	Substance or Article	Remarks
2576	PHOSPHORUS OXYBROMIDE, MOLTEN	Non-combustible. Use of water on substance may cause violent reaction.

EMERGENCY SCHEDULE 8-14

EmS DELETED

EMERGENCY SCHEDULE 8-15

CORROSIVE SUBSTANCES, NOT COVERED BY OTHER SCHEDULES

Special Emergency Equipment to be carried

Protective clothing (gloves, boots, coveralls, headgear).
Self-contained breathing apparatus.
Spray nozzles.

EMERGENCY PROCEDURES

Wear protective clothing and self-contained breathing apparatus when dealing with SPILLAGE or FIRE.

EMERGENCY ACTION

Use of water on substance may cause violent reaction.
Avoid all sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools).
Turn ship off wind.

On deck

Under deck

SPILLAGE Wash overboard with copious quantities of water from as far away as practicable.

Collect spillage, where practicable, using absorbent material for liquids, for safe disposal.

FIRE Use water spray from as far away as practicable. Wash deck in vicinity with copious quantities of water. If possible remove receptacles likely to be involved or keep them cool with copious quantities of water.

Batten down; use ship's fixed fire-fighting installation. Otherwise adopt action as for "On deck".

First Aid – See IMO Medical First Aid Guide (MFAG)