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**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA  
(MACFAST)  
Thiruvalla - 689101**

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# **HAZARDOUS CHEMICALS & RADIOACTIVE WASTE MANAGEMENT**





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### **HAZARDOUS CHEMICAL WASTE MANAGEMENT**

The institution generates no radioactive waste and only negligible amount of hazardous chemical waste. Hazardous chemical wastes are treated and disposed effectively. A material safety data sheet is maintained for all chemicals, the chemicals are treated to make it non-hazardous before disposal.



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**LIST OF HAZARDOUS CHEMICALS AND**  
**MODE OF DISPOSAL**

Sl. No	Chemical Name	Hazard statements	Precautions to be taken during accidental spill	Health Precautions to be taken if exposed to chemical	Mode of disposal
1.	Ammonium Chloride (Nice)	Harmful if swallowed Causes serious eye irritation Toxic to aquatic life with long lasting effects	Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Ensure that air-handling systems are operational. Environmental precautions: Should not be released into the environment. Prevent from reaching drains, sewer, or waterway. Methods and material for containment and cleaning up: Keep in suitable closed containers for disposal. If necessary, use trained response staff or contractors. Absorb with suitable material. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Evacuate personnel to safe areas. Containerize for disposal.	After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Give artificial respiration if necessary. Get medical assistance if cough or other symptoms appear. After skin contact: Wash affected area with soap and water. Seek medical advice if discomfort or irritation persists. After eye contact: Protect unexposed eye. Rinse or flush the exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Continue rinsing eyes for an additional 15 minutes. Immediately get medical assistance. After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Get medical assistance.	Keep in suitable closed containers for disposal. Dilute with water and flush to sewer. If necessary use trained response staff or contractor. Absorb with suitable material. Wear protective eyewear, gloves, and clothing.
2.	Antimony potassium Tartrate	May cause respiratory irritation	Personal Precautions Environmental Precautions	General Advice If symptoms persist, call a physician.	Use appropriate containment to avoid environmental

		<p>May cause damage to organs through prolonged or repeated exposure Harmful if swallowed or if inhaled</p>	<p>Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not flush into surface water or the sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate the groundwater system. Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.</p>	<p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Ingestion: Clean mouth with water and drink plenty of water. Get medical attention if symptoms occur. Most important symptoms and effects:None reasonably foreseeable. Notes to Physician Treat symptomatically</p>	<p>contamination. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse.</p>
3.	Ammonium persulphate AR	<p>May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.</p>	<p>Personal precautions, protective equipment and emergency procedures General measures : No open flames. No smoking. For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel. For emergency responders</p>	<p>Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if</p>	<p>Dispose of contents/container to hazardous or special waste collection point, in accordance to local, regional, national and/or international regulation.</p>

		<p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>May cause respiratory irritation.</p>	<p>Protective equipment</p> <p>Emergency procedures : Use personal protective equipment as required.</p> <p>: Ventilate area.</p>	<p>irritation develops or persists. Wash clothing before reuse.</p> <p>Ingestion: Do not induce vomiting. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.</p> <p>Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.</p> <p>Notes to Physician: Treat symptomatically and supportively.</p>	
4.	Barium chloride (Merck)	<p>Eye: Contact produces irritation, tearing, and burning pain. May cause conjunctivitis.</p> <p>Skin: Causes skin irritation. Prolonged contact with the skin, especially if the skin is wet or moist, causes necrosis.</p> <p>Ingestion: Harmful if swallowed. May cause kidney damage. The barium ion is a muscle poison causing stimulation and then paralysis. Initial</p>	<p>General Information: Use proper personal protective equipment as indicated in Section 8.</p> <p>Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.</p>	<p>Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p>Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.</p> <p>Ingestion: Do not induce vomiting. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure</p>

		<p>symptoms are gastrointestinal, including nausea, vomiting, colic, and diarrhea, followed by myocardial and general muscular stimulation with tingling in the extremities. Barium chloride affects the muscles (especially the smooth muscles of the cardiovascular and respiratory systems), causes salivation, tingling of the mouth or face, convulsions, numbness, muscle paralysis, respiratory failure, slow pulse rate, pulmonary edema, irregular heart beat, potassium deficiency in the</p> <p>Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause effects similar to those described for ingestion.</p> <p>Chronic: Chronic exposure may cause effects similar to those of acute exposure.</p>		<p>Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.</p> <p>Notes to Physician: Do NOT use mouth-to-mouth resuscitation.</p>	<p>complete and accurate classification.</p>
5.	Barium chloride (Nice-2 bottles)	<p>Eye: Contact produces irritation, tearing, and burning pain. May cause conjunctivitis.</p> <p>Skin: Causes skin irritation. Prolonged</p>	<p>General Information: Use proper personal protective equipment as indicated in Section 8.</p> <p>Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean</p>	<p>Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p>Skin: Get medical aid. Flush skin with plenty of water for at least 15</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US</p>

	<p>contact with the skin, especially if the skin is wet or moist, causes necrosis. Ingestion: Harmful if swallowed. May cause kidney damage. The barium ion is a muscle poison causing stimulation and then paralysis. Initial symptoms are gastrointestinal, including nausea, vomiting, colic, and diarrhea, followed by myocardial and general muscular stimulation with tingling in the extremities. Barium chloride affects the muscles (especially the smooth muscles of the cardiovascular and respiratory systems), causes salivation, tingling of the mouth or face, convulsions, numbness, muscle paralysis, respiratory failure, slow pulse rate, pulmonary edema, irregular heart beat, potassium deficiency in the</p> <p>Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause effects similar to those described for ingestion.</p>	<p>up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.</p>	<p>minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. Notes to Physician: Do NOT use mouth-to-mouth resuscitation.</p>	<p>EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</p>
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		Chronic: Chronic exposure may cause effects similar to those of acute exposure.			
6.	Borax (3 bottles)	<p>Eye Contact: May cause eye irritation.</p> <p>Skin Contact: Not irritating to skin.</p> <p>Inhalation: High concentrations of dust may cause coughing and mild, temporary irritation.</p> <p>Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause gastrointestinal symptoms. May cause abdominal discomfort, nausea, vomiting and diarrhea.</p>	<p>Personal Precautionary Measures: Wear appropriate protective equipment.</p> <p>Environmental Precautionary Measures: Borax is a water-soluble, white powder that may, at high concentrations, cause damage to trees or vegetation by root absorption. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.</p> <p>Procedure for Clean Up: Scoop up or vacuum up and place in an appropriate closed container.</p> <p>Water spill: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its natural environmental background level.</p>	<p>Eye Contact: Flush eyes with gently flowing water for at least 30 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse the contaminated water into the unaffected eye or face. Seek immediate medical attention.</p> <p>Skin Contact: Wash with soap and water.</p> <p>Inhalation: Move the person to fresh air.</p> <p>Ingestion: Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, seek medical attention.</p> <p>Notes to Physician: Observation only is required for adult ingestion in the range of 4-8 grams of product. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should</p>	<p>Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.</p> <p>Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.</p>

				not be used to evaluate severity of poisoning or to guide treatment.	
7.	Benzoic acid pure	Harmful by ingestion., Irritant, Harmful by inhalation, Serious eye damage, Specific target organ toxicity on single exposure	On accidental spill, evacuate personnel and control entrance to the area. Eliminate all ignition sources. Use a HEPA-filter vacuum for clean up and place into sealed containers for disposal. Ventilate and wash area after clean up is complete. Do NOT wash into sewer.	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of the dangerous area. If inhaled If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.
8.	Bismuth Nitrate	May intensify fire; oxidiser May be harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in suitable, closed containers for disposal.	General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of the dangerous area. If inhaled If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact	Burn in a incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

				<p>Wash off with soap and plenty of water. Consult a physician.</p> <p>In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.</p> <p>If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p>	<p>professional waste disposal service to dispose of this material. If the packaging is contaminated dispose of as unused product</p>
9.	Barium Hydroxide	<p>Harmful if swallowed Harmful if inhaled Causes serious eye damage Causes severe skin burns and eye damage</p>	<p>After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing is difficult, give oxygen.</p> <p>After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.</p> <p>After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.</p> <p>After swallowing: Rinse mouth thoroughly. Do not induce</p>	<p>After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.</p> <p>After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.</p> <p>After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.</p> <p>After swallowing: Rinse mouth thoroughly. Do not induce</p>	<p>Dispose according to the local and national regulations</p>

			<p>vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.</p> <p>Most important symptoms and effects, both acute and delayed: Irritation, Nausea, Headache, Shortness of breath.;</p> <p>Indication of any immediate medical attention and special treatment needed:</p> <p>If seeking medical attention, provide SDS document to physician</p>	<p>vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.</p> <p>Most important symptoms and effects, both acute and delayed: Irritation, Nausea, Headache, Shortness of breath.;</p> <p>Indication of any immediate medical attention and special treatment needed:</p> <p>If seeking medical attention, provide SDS document to physician.</p>	
10.	Copper(II) sulfate Pentahydrate	<p>Harmful if swallowed</p> <p>Causes skin irritation</p> <p>Causes serious eye irritation</p> <p>Very toxic to aquatic life</p> <p>Very toxic to aquatic life with long lasting effect</p>	<p>Do not eat, drink or smoke when using this product</p> <p>Rinse mouth</p> <p>Specific treatment (see ... on this label)</p> <p>Take off contaminated clothing and wash before reuse</p> <p>Collect spillage</p> <p><b>IF SWALLOWED:</b> Call a POISON CENTER or doctor/physician if you feel unwell</p> <p><b>IF ON SKIN:</b> Wash with soap and water</p> <p><b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing</p>	<p><b>Eyes:</b> Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p><b>Skin:</b> Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.</p> <p><b>Ingestion:</b> Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.</p> <p><b>Inhalation:</b> Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT</p>	<p>Products/containers must not be disposed of together with household garbage. Do not allow product to reach sewage system or open water. Materials are disposed according to applicable regulatory entities after consulting t federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.</p>

			<p>If skin irritation or a rash occurs: Get medical advice/attention If eye irritation persists get medical advice/attention</p>	<p>use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. <b>Notes to Physician:</b> Individuals with Wilson's disease are more susceptible to chronic copper poisoning. <b>Antidote:</b> The use of d- Penicillamine as a chelating agent should be determined by qualified medical personnel.</p>	
11.	Cupric sulphate AR	Harmful if swallowed Causes skin irritation Causes serious eye irritation	<p>Personal Precautions Environmental Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.</p>	<p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration. Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>

				effects Notes to Physician No information available. Treat symptomatically	
12.	Calcium chloride dihydrate	None	<p><b>General Information:</b> Use proper personal protective equipment as indicated in Section 8.</p> <p><b>Spills/Leaks:</b> Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.</p>	<p><b>Eyes:</b> Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p><b>Skin:</b> Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.</p> <p><b>Ingestion:</b> Do not induce vomiting. Get medical aid if irritation or symptoms occur.</p> <p><b>Inhalation:</b> Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.</p> <p><b>Notes to Physician:</b> Treat symptomatically and supportively.</p>	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
13.	Citric acid anhydrous Pure	Causes serious eye irritation	<p>For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel. For emergency responders Protective equipment Emergency procedures : Use personal protective equipment as required. : Ventilate area.</p>	<p>Inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Skin contact</p>	No additional information available

			<p>Environmental precautions Avoid release to the environment. Methods and material for containment and cleaning up Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up</p>	<p>: Wash with plenty of water/Get immediate medical advice/attention. Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Ingestion : Rinse mouth. Do not induce vomiting.</p>	
14.	Calcium Hydroxide	<p>Skin Irritation Eye Damage Specific Target Organ Toxicity, Single Exposure (respiratory)</p>	<p>Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Transfer to a disposal or recovery container. Use spark-proof tools and explosion-proof equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Environmental precautions: Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13</p>	<p>After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen. After skin contact: Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists. After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.</p>	<p>Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this</p>

			<p>Methods and material for containment and cleaning up:          If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</p>	<p>After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.          Most important symptoms and effects, both acute and delayed: Skin, eye, and upper respiratory tract irritation. Irritation, Nausea, Headache, Shortness of breath.;          Indication of any immediate medical attention and special treatment needed: If seeking medical attention, provide SDS document to physician.</p>	product.
15.	Cupric sulphate	<p>Harmful if swallowed          Causes skin irritation          Causes serious eye irritation</p>	<p>Personal Precautions          Environmental Precautions          Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.          Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities</p>	<p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.          Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.          Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>



			<p>should be advised if significant spillages cannot be contained. Should not be released into the environment.</p> <p>Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.</p>	<p>valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration. Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and effects</p> <p>Notes to Physician No information available.</p> <p>Treat symptomatically</p>	
16.	Citric acid anhydrous	Causes serious eye irritation	<p>For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel.</p> <p>For emergency responders Protective equipment Emergency procedures : Use personal protective equipment as required.</p> <p>: Ventilate area.</p> <p>Environmental precautions Avoid release to the environment.</p> <p>Methods and material for containment and cleaning up Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up</p>	<p>Inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Skin contact : Wash with plenty of water/Get immediate medical advice/attention.</p> <p>Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.</p> <p>Ingestion : Rinse mouth. Do not induce vomiting.</p>	No additional information available
17.	Potassium nitrate	May intensify fire; oxidizer Causes skin irritation	General Information: Use proper personal protective equipment as indicated in Section 8.	Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the	Do not discharge into drains or the environment. Remove

		Causes serious eye irritation May cause respiratory irritation	Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill. Keep combustibles (wood, paper, oil, etc.,) away from spilled material. Do not let this chemical enter the environment.	upper and lower eyelids. If irritation develops, get medical aid. Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Ingestion: Do not induce vomiting. Get medical aid if irritation or symptoms occur. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Notes to Physician: Treat symptomatically and supportively.	waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized dump (Class I). Precipitate/make insoluble.
18.	Sodium hydroxide pellet	Poison, danger, corrosive. May be fatal if swallowed. Harmful if inhaled. Causes burns to any area of contact. Reacts with water,	Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment. Pick up and place in a	Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.	Processing, use or contamination of this product may change the waste management options. State and local disposal

		acids and other materials.	<p>suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.</p>	<p>Ingestion:  <b>DO NOT INDUCE VOMITING!</b>  Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.  Skin Contact:  Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.  Eye Contact:  Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Note to Physician:  Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.</p>	<p>regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.</p>
19.	Phenol	Very hazardous in case of skin contact (corrosive,	Small Spill: Use appropriate tools to put the spilled solid in a	Eye Contact:	Waste must be disposed of in accordance with

		<p>irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering, Carcinogenic effect, mutagenic effect and developmental toxicity</p>	<p>convenient waste disposal container.  <b>Large Spill:</b>          Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.</p>	<p>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.  <b>Skin Contact:</b>          In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.  <b>Serious Skin Contact:</b>          Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.  <b>Inhalation:</b>          If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  <b>Serious Inhalation:</b>          Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If</p>	<p>federal, state and local environmental control regulations.</p>
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				<p>breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.</p> <p>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 a collar, tie, belt or waistband.</p> <p>Serious Ingestion: Not available.</p>	
20.	Hydrogen peroxide 30%	<p>May cause fire or explosion; strong oxidizer Harmful if swallowed Causes severe skin burns and eye damage Harmful if inhaled</p>	<p>Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking</p>	<p>After inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.</p> <p>After skin contact: Flush with water for 15 minutes. Get medical</p>	<p>Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory</p>

			<p>or using inert absorbent. Transfer to a disposal or recovery container.</p> <p>Environmental precautions: Should not be released into the environment. Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13 Methods and material for containment and cleaning up: Soak up with an inert absorbent material and containerize for disposal. If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor</p>	<p>assistance if irritation develops. Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists.</p> <p>After eye contact: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance. Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.</p> <p>After swallowing: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance. Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists</p>	<p>entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.</p>
21.	Chloroform	Harmful if swallowed Causes skin irritation	<p>Personal precautions : No action shall be taken involving any personal risk or without suitable training.</p> <p>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from</p>	<p>Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.</p>	<p>The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing</p>

			<p>entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).  Environmental precautions :  Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  Methods for cleaning up  Spill  Continued on next page  : Stop leak if without risk. Move containers from spill area.  Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.  Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local</p>	<p>Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.  Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.  Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.</p>	<p>may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.</p>
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			<p>regulations. Dispose of via a licensed waste disposal contractor.</p> <p>Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.</p>		
22.	Ammonium persulphate	<p>May intensify fire; oxidiser.</p> <p>Harmful if swallowed.</p> <p>Causes skin irritation.</p> <p>May cause an allergic skin reaction.</p> <p>Causes serious eye irritation.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>May cause respiratory irritation.</p>	<p>Personal precautions, protective equipment and emergency procedures</p> <p>General measures : No open flames. No smoking.</p> <p>For non-emergency personnel</p> <p>Emergency procedures : Evacuate unnecessary personnel.</p> <p>For emergency responders</p> <p>Protective equipment</p> <p>Emergency procedures : Use personal protective equipment as required.</p> <p>: Ventilate area.</p>	<p>Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p>Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.</p> <p>Ingestion: Do not induce vomiting. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.</p> <p>Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.</p>	<p>Dispose of contents/container to hazardous or special waste collection point, in accordance to local, regional, national and/or international regulation.</p>



				<p>If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.</p> <p>Notes to Physician: Treat symptomatically and supportively.</p>	
23.	<p>Chloroform Molecular biology grade</p>	<p>Harmful if swallowed Causes skin irritation</p>	<p>Personal precautions : No action shall be taken involving any personal risk or without suitable training.</p> <p>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist.</p> <p>Provide adequate ventilation.</p> <p>Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).</p> <p>Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Methods for cleaning up Spill Continued on next page</p>	<p>Eye contact:Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.</p> <p>Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</p> <p>Inhalation:Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</p> <p>Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.</p> <p>Ingestion:Wash out mouth with water. Do not induce vomiting unless directed to do so by medical</p>	<p>The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.</p>

			<p>: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.</p> <p>Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.</p> <p>Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.</p>	<p>personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.</p>	
24.	Ammonium persulphate	<p>May intensify fire; oxidiser.</p> <p>Harmful if swallowed.</p> <p>Causes skin irritation.</p> <p>May cause an allergic skin reaction.</p> <p>Causes serious eye irritation.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p>	<p>Personal precautions, protective equipment and emergency procedures</p> <p>General measures</p> <p>: No open flames. No smoking.</p> <p>For non-emergency personnel</p> <p>Emergency procedures : Evacuate unnecessary personnel.</p> <p>For emergency responders</p> <p>Protective equipment</p>	<p>Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.</p> <p>Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.</p>	<p>Dispose of contents/container to hazardous or special waste collection point, in accordance to local, regional, national and/or international regulation.</p>

		May cause respiratory irritation.	Emergency procedures : Use personal protective equipment as required. : Ventilate area.	Ingestion: Do not induce vomiting. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Notes to Physician: Treat symptomatically and supportively.	
25.	Bis acrylamide	Toxic if swallowed Harmful in contact with skin May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure	General Information: Use proper personal protective equipment. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.	Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid. Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

				<p>Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.</p> <p>Notes to Physician: Treat symptomatically and supportively. Antidote: Pyridoxine (vitamin B6), pyruvate, and N-acetylcysteine have been used to reduce the toxicity of acrylamide in experimental studies, but are unproven.</p>	
26.	Phenol saturated	<p>Causes severe skin burns and eye damage          Suspected of causing genetic defects          May cause damage to organs through prolonged or repeated exposure          May cause respiratory irritation          Toxic if swallowed, in contact with skin or if inhaled</p>	<p>Personal Precautions          Environmental Precautions          Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.          Do not flush into surface water or sanitary sewer system.          Methods for Containment and Clean up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.</p>	<p>Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.          Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.          Inhalation Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.          Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.          Most important symptoms and</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>

				<p>effects Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation</p> <p>Notes to Physician:Treat symptomatically</p>	
27.	Phenol GR	<p>Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness</p>	<p>Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.</p> <p>Large Spill: Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.</p>	<p>Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.</p> <p>Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.</p> <p>Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical</p>	<p>Waste must be disposed of in accordance with federal, state and local environmental control regulations.</p>

		<p>or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering, Carcinogenic effect, mutagenic effect and developmental toxicity</p>		<p>attention.  <b>Inhalation:</b>          If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  <b>Serious Inhalation:</b>          Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.  <b>Ingestion:</b>          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 a collar, tie, belt or waistband.  <b>Serious Ingestion:</b> Not available.</p>	
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28.	Chloroform	Harmful if swallowed Causes skin irritation	<p>Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Methods for cleaning up Spill Continued on next page : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.</p>	<p>Eye contact:Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Inhalation:Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Ingestion:Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.</p>	<p>The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.</p>
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			<p>Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.</p> <p>Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.</p>		
29.	Hydrochloric acid	<p>May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation.</p>	<p>Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing.</p> <p>Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid</p>	<p>Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.</p> <p>Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.</p> <p>Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. 1</p>



			<p>discharge into drains, water courses or onto the ground. In case of large spill, dike if needed.</p> <p>Methods for Containment: Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible.</p> <p>Methods for Cleaning Up: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a suitable non-combustible container for reclamation or disposal. Do not use combustible materials, such as sawdust. Clean contaminated surface thoroughly. Neutralize spill area and washings with soda ash or lime. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.</p>	<p>Inhalation: POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>Notes to Physician: Do NOT use sodium bicarbonate in an attempt to neutralize the acid.</p>	
30.	Sodium cobaltinitrite	<p>May intensify fire; oxidiser.</p> <p>Causes skin irritation.</p> <p>May cause an allergic skin reaction.</p> <p>Causes serious eye irritation.</p> <p>May cause allergy or asthma symptoms or</p>	<p>Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to</p>	<p>General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s)</p>	<p>Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.</p> <p>Contaminated packaging:</p>

		<p>breathing difficulties if inhaled.  H335 - May cause respiratory irritation.</p>	<p>safe areas. Avoid breathing dust. Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material. Remove all sources of ignition. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas. Methods and material for containment and cleaning up  Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.  Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.</p>	<p>involved and take precautions to protect themselves. First aider needs to protect himself.  Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.  Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.  Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.  Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.</p>	<p>Empty containers should be taken for local recycling, recovery or waste disposal.</p>
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31.	Tris base cell culture tested	<p>May be harmful if inhaled. May cause respiratory tract irritation.</p> <p>May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.</p>	<p>Personal precautions, protective equipment and emergency procedures</p> <p>Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.</p> <p>Environmental precautions</p> <p>Do not let product enter drains. Methods and materials for containment and cleaning up</p> <p>Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.</p>	<p>If inhaled</p> <p>After inhalation: fresh air.</p> <p>Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>Eye contact: rinse out with plenty of water. Remove contact lenses.</p> <p>If swallowed</p> <p>After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.</p> <p>Most important symptoms and effects, both acute and delayed</p> <p>Indication of any immediate medical attention and special treatment needed</p> <p>No data available</p>	<p>Observe all federal, state and local regulations when disposing of this substance.</p>
32.	Zinc nitrate hexahydrate purified	<p>May intensify fire; oxidiser</p> <p>May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.</p> <p>Harmful if absorbed through skin. Causes skin burns. Causes eye burns.</p> <p>Harmful if swallowed</p>	<p>Consult a physician. Show this safety data sheet to the doctor in attendance.</p> <p>Move out of dangerous area.</p> <p>If inhaled</p> <p>If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p>In case of skin contact</p> <p>Wash off with soap and plenty of water. Consult a physician.</p> <p>In case of eye contact</p> <p>Rinse thoroughly with plenty of water for at least 15 minutes and</p>	<p>Eye Contact</p> <p>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.</p> <p>Skin Contact</p> <p>Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.</p> <p>Inhalation</p> <p>Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a</p>	<p>Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.</p> <p>Keep in suitable, closed containers for disposal.</p>

			<p>consult a physician. Continue rinsing eyes during transport to hospital.</p> <p>If swallowed</p> <p>Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician</p>	<p>pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.</p> <p>Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and effects</p> <p>Notes to Physician No information available.</p> <p>Treat symptomatically</p>	
33.	Boric acid	May damage fertility. May damage the unborn child	<p>Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.</p> <p>Environmental Precautions: Should not be released into the environment. Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.</p>	<p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.</p> <p>Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.</p> <p>Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.</p> <p>Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>

				effects:No information available. Notes to Physician: Treat symptomatically	
34.	Bis acrylamide	Toxic if swallowed Harmful in contact with skin May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure	General Information: Use proper personal protective equipment. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.	Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid. Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Notes to Physician: Treat symptomatically and supportively. Antidote: Pyridoxine (vitamin B6), pyruvate, and N-acetylcysteine have been used to reduce the toxicity of acrylamide in experimental studies, but are unproven.	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
35.	Copper (II) Sulfate pentahydrate	Toxic if swallowed Very toxic to aquatic life	General Information: Use proper personal protective equipment.	Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the	Chemical waste generators must determine whether a

		Very toxic to aquatic life with long lasting effects	Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. U.S. regulations require reporting spills and releases to soil, water and air in excess of reportable quantities.	upper and lower eyelids. Get medical aid. Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Notes to Physician: Individuals with Wilson's disease are more susceptible to chronic copper poisoning. Antidote: The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel.	discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
36.	Millons reagent	May be corrosive to metals Fatal in contact with skin Causes severe skin burns and eye damage	Personal Precautions Environmental Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use	General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	Chemical waste generators must determine whether a discarded chemical is classified as a

		<p>Causes damage to organs through prolonged or repeated exposure Toxic if swallowed or if inhaled</p>	<p>personal protective equipment as required. Ensure adequate ventilation. Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system. Methods for Containment and Clean up: Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Wear self-contained breathing apparatus and protective suit.</p>	<p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. Inhalation Remove to fresh air. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and effects Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Notes to Physician: Treat symptomatically</p>	<p>hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>
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37.	Molischs reagent	<p>Highly flammable liquid and vapour          Causes skin irritation          Causes serious eye damage</p>	<p>Personal precautions, protective equipment and emergency procedures:          Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Ensure adequate ventilation.Avoid contact with skin, eyes and clothing.          Environmental precautions:          Prevent from reaching drains, sewer or waterway. Ethanol has a slight acute and chronic toxicity to aquatic life.          Methods and material for containment and cleaning up:          If necessary use trained response staff or contractor. Wear protective eyeware, gloves, and clothing. Refer to Section 8.Remove all sources of ignition. Contain spill.Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment.Dispose of empty containers as unused product.</p>	<p>After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position.If breathing is difficult give oxygen.Immediately get medical assistance.          After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical attention if irritation persists or if concerned.          After eye contact: Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Rinse or flush exposed eye gently using water for 15-20 minutes. Immediately get medical assistance.          After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Dilute mouth with water or milk after rinsing.Immediately get medical assistance.          Most important symptoms and effects, both acute and delayed: Irritation, Nausea,Headache, Shortness of breath.;          Indication of any immediate medical attention and special treatment needed:</p>	<p>It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Absorb with suitable absorbent material such as sand or earth and containerize for disposal. Ventilate area of leak or spill.Have fire extinguishing agent available in case of fire. Eliminate all sources of ignition.Use spark-proof tools and explosion-proof equipment.Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.</p>
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				If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.	
38.	Sodium nitrate	May intensify fire; oxidizer Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure	Personal Precautions Environmental Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid release to the environment. Methods for Containment and Clean up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.	General Advice: If symptoms persist, call a physician. Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention. Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention. Ingestion Do not induce vomiting. Obtain medical attention. Most important symptoms and effects: None reasonably foreseeable. Notes to Physician: Treat symptomatically	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
39.	Iron (II) sulfate heptahydrate	Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause drowsiness and dizziness	General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.	Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste

				<p>Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.</p> <p>Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.</p> <p>Notes to Physician: Treat symptomatically and supportively.</p>	<p>generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</p>
40.	Molybdcic acid	<p>Causes serious eye irritation</p> <p>May cause respiratory irritation</p> <p>May cause damage to organs through prolonged or repeated exposure</p>	<p>Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.</p> <p>Environmental Precautions: Should not be released into the environment.</p> <p>Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.</p>	<p>General Advice: If symptoms persist, call a physician.</p> <p>Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.</p> <p>Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.</p> <p>Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.</p> <p>Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>

				<p>Most important symptoms and effects: None reasonably foreseeable.</p> <p>Notes to Physician:Treat symptomatically</p>	
41.	Mercury (II)sulfate	<p>May cause damage to organs through prolonged or repeated exposure</p> <p>Fatal if swallowed, in contact with skin or if inhaled</p>	<p>Personal Precautions</p> <p>Environmental Precautions</p> <p>Evacuate personnel to safe areas. Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.</p> <p>Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.</p> <p>Methods for Containment and Clean up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.</p>	<p>General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.</p> <p>Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.</p> <p>Skin Contact Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.</p> <p>Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.</p> <p>Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.</p>	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>

				<p>Most important symptoms and effects No information available. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing: May cause adverse kidney effects: Symptoms may be delayed Notes to Physician: Treat symptomatically</p>	
42.	Nickel (II)chloride hexahydrate extra pure	<p>Toxic if swallowed or if inhaled Causes skin irritation May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing genetic defects May cause cancer by inhalation May damage the unborn child Causes damage to organs through prolonged or repeated exposure Very toxic to aquatic life with long lasting effects</p>	<p>Personal precautions, protective equipment and emergency procedures For non-emergency personnel Do not breathe dust. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Provide adequate ventilation. Environmental precautions Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Methods and material for containment and cleaning up Advices on how to contain a spill Covering of drains. Advices on how to clean up a spill</p>	<p>General notes Take off immediately all contaminated clothing. Self-protection of the first aider. Following inhalation Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately. Following skin contact After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician. Following eye contact Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice. Following ingestion</p>	<p>Waste treatment methods This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. Sewage disposal-relevant information Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Waste treatment of containers/packagings It is a dangerous waste; only packagings which</p>

			<p>Take up mechanically. Control of dust.  Other information relating to spills and releases  Place in appropriate containers for disposal.</p>	<p>Rinse mouth immediately and drink plenty of water. Call a physician immediately.</p>	<p>are approved (e.g. acc. to ADR) may be used. Sewage disposal-relevant information  Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.  Waste treatment of containers/packagings  It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Relevant provisions relating to waste  The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  Remarks  Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant</p>
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					national or regional provisions.
43.	Sodium lauryl sulphate AR	<p>Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer). Severe over-exposure can result in death.</p> <p>Potential Chronic Health Effects: Slightly hazardous in case of skin contact (sensitizer).</p>	<p>Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.</p> <p>Large Spill: Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</p>	<p>Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.</p> <p>Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</p> <p>Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.</p> <p>Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.</p> <p>Serious Inhalation: Not available.</p> <p>Ingestion: Do NOT induce vomiting unless directed to do so by medical</p>	<p>Waste must be disposed of in accordance with federal, state and local environmental control regulations.</p>

				<p>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 a collar, tie, belt or waistband.</p> <p>Serious Ingestion: Not available</p>	
44.	Sodium hydroxide pellets	<p>Poison, danger, corrosive. May be fatal if swallowed. Harmful if inhaled. Causes burns to any area of contact. Reacts with water, acids and other materials.</p>	<p>Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.</p>	<p>Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: <b>DO NOT INDUCE VOMITING!</b> Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately. Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse. Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Note to Physician:</p>	<p>Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.</p>

				<p>Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.</p>	
45.	Potassium hydroxide pellets	<p>Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant, corrosive), of ingestion, of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking,</p>	<p><b>Small Spill:</b> Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. <b>Large Spill:</b> Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.</p>	<p><b>Eye Contact:</b> Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. <b>Skin Contact:</b> In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. <b>Serious Skin Contact:</b> Wash with a disinfectant soap and cover the contaminated skin with</p>	<p>Waste must be disposed of in accordance with federal, state and local environmental control regulations.</p>



		<p>unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p>		<p>an anti-bacterial cream. Seek immediate medical attention.  <b>Inhalation:</b>          If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  <b>Serious Inhalation:</b>          Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.  <b>Ingestion:</b>          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 a collar, tie, belt or waistband.</p>	
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46.	Potassium nitrate	<p>May intensify fire; oxidizer          Causes skin irritation          Causes serious eye irritation          May cause respiratory irritation</p>	<p>General Information: Use proper personal protective equipment as indicated in Section 8.          Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Do not let this chemical enter the environment.</p>	<p>Serious Ingestion: Not available.          Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.          Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.          Ingestion: Do not induce vomiting. Get medical aid if irritation or symptoms occur.          Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.          Notes to Physician: Treat symptomatically and supportively.</p>	<p>Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized dump (Class I). Precipitate/make insoluble.</p>
47.	Sodium nitrate	<p>May intensify fire; oxidizer</p>	<p>Personal Precautions</p>	<p>General Advice: If symptoms persist, call a physician.</p>	<p>Chemical waste generators must</p>

		<p>Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure</p>	<p>Environmental Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid release to the environment. Methods for Containment and Clean up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.</p>	<p>Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention. Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention. Ingestion Do not induce vomiting. Obtain medical attention. Most important symptoms and effects: None reasonably foreseeable. Notes to Physician: Treat symptomatically</p>	<p>determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.</p>
48.	Zinc sulfate heptahydrate GR	<p>Harmful if swallowed Causes serious eye damage May cause damage to organs through prolonged or repeated exposure</p>	<p>Personal Precautions Environmental Precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Methods for Containment and Clean up: Avoid dust formation. Sweep up or vacuum up spillage</p>	<p>Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.</p>	<p>Dispose of in accordance with Federal, State, and local regulations</p>

			and collect in suitable container for disposal.	Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately. Most important symptoms and effects: Causes eye burns. Notes to Physician: Treat symptomatically	
49.	Phenol	Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching,	Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Large Spill: Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

		scaling, reddening, or, occasionally, blistering, Carcinogenic effect, mutagenic effect and developmental toxicity		<p>respiration. If breathing is difficult, give oxygen. Get medical attention immediately.</p> <p>Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.</p> <p>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 a collar, tie, belt or waistband.</p> <p>Serious Ingestion: Not available.</p>	
50.	Aceton	Highly flammable liquid and vapour Causes serious eye irritation	Personal precautions, protective equipment and emergency procedures	<p>Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.</p>	Dispose of waste and residues in accordance with local authority requirements. This material and its

		May cause drowsiness or dizziness	<p>Wear appropriate protective clothing (see Section 8), consider need for evacuation. Eliminate all source of ignition.</p> <p>Environmental precautions Prevent material entering drains and watercourses. Advise local authorities if spillage has entered watercourses and sewer.</p> <p>Methods and material for containment and cleaning up Contain and absorb using inert material and transfer into suitable containers for recovery or disposal by a licensed waste contractor.</p>	<p>Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.</p> <p>Ingestion: Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.</p> <p>Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.</p> <p>Notes to Physician: Treat symptomatically and supportively.</p>	container must be disposed as hazardous waste.
51.	Hydrogen peroxide	<p>May cause fire or explosion; strong oxidizer</p> <p>Harmful if swallowed</p> <p>Causes severe skin burns and eye damage</p> <p>Harmful if inhaled</p>	<p>Personal precautions, protective equipment and emergency procedures:</p> <p>Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking</p>	<p>After inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.</p> <p>After skin contact: Flush with water for 15 minutes. Get medical</p>	Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory

			<p>or using inert absorbent. Transfer to a disposal or recovery container. Environmental precautions: Should not be released into the environment .Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13 Methods and material for containment and cleaning up: Soak up with an inert absorbent material and containerize for disposal.If in a laboratory setting, follow Chemical Hygiene Plan procedures.Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor</p>	<p>assistance if irritation develops.Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists. After eye contact: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned. After swallowing: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists</p>	<p>entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.</p>
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