



CHEMICALS STORAGE CONDITIONS AND PPEs REQUIREMENTS

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | |
|--------------|------|-------------------------------|---|--|-------------------------------|------------------------------|---------------------|-------------------------------------|--|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| CORROSIVE | 1 | Benzoic acid | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Neoprene gloves Polyvinyl chloride (PVC) gloves Latex gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 2 | Calcium hydroxide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 3 | Chromium(III) sulfate basic | Store in cool place. | Appropriate fire extinguisher (FE) | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 4 | Copper(II) chloride dihydrate | Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 5 | 3,5-Dinitrobenzoyl chloride | Store under inert gas. Moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 6 | Hydrochloric acid | Store in cool place. Keep container upright. | Appropriate FE | Safety goggles | Face shield (8-inch minimum) | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 7 | Iron(III) chloride | Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 8 | Iron(III) chloride hydrated | Store under inert gas. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Nature latex/ chloroprene gloves | - | N100 full-face particle respirator P3 respirator cartridges |

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|--------------|------|-------------------------------|---|--|----------------------------------|------------------------------|---------------------------|----------------------------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| CORROSIVE | 9 | α -Naphthol | Store under inert gas. Air & light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Nature latex/ chloroprene gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 10 | Phosphoric acid, 85% solution | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 11 | Potassium hydroxide | Air sensitive Absorbs CO ₂ from air Strongly hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 12 | Salicylic acid | Light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 13 | Sodium hydrogen-sulfite | Air & moisture sensitive Do not store near acids. | Dry powder | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 14 | Sodium hydroxide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 15 | Succinic acid | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 16 | Sulfuric acid | Store in cool place. Keep container upright. | Appropriate FE | Safety goggles | Face shield (8-inch minimum) | Fluorinated rubber gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 17 | Zinc(II) sulfate heptahydrate | Hygroscopic | Appropriate FE | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| ENVIRONMENT | 18 | Copper(II) oxide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |

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|--------------|------|---------------------------|--|--|----------------------------------|------------------------------|---------------------------|---------------------------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| ENVIRONMENT | 19 | Copper(II) sulfate | Air sensitive Hygroscopic Store under inert gas | Appropriate FE | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 20 | Fehling's solution no. 1 | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 21 | Resorcinol | Air & light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| FLAMMABLE | 22 | Acetaldehyde 35% solution | Store in cool place. Keep container upright. Recommended storage temperature: 2-8 °C | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Butyl-rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 23 | Acetic acid | Store in cool place. Keep container upright. Moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Butyl-rubber gloves | Nature latex/chloroprene gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 24 | Acetone | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Butyl-rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 25 | Acetonitrile | Store in cool place. Keep container upright. Handle & store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Butyl-rubber gloves | Butyl-rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 26 | Ammonia solution | Store in cool place. Keep container upright. Recommended storage temperature: 2-8 °C | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Butyl-rubber gloves | Nature latex/chloroprene gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 27 | Benzene | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 28 | Benzyl chloride | Store in cool place. Keep container upright. Light sensitive | For small fires, use alcohol-resistant foam, dry chemical, | Safety goggles | Face shield (8-inch minimum) | Fluorinated rubber gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator |

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|--------------|------|------------------|---|---|-------------------------------|-------------|---------------------------|---------------------------|---------------------------|---|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| | | | Moisture sensitive | or CO ₂ . For large fires, apply large quantities of water as mist or spray. | | | | | | cartridges |
| | 29 | 1-Bromobutane | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 30 | Bromoethane | Store in cool place. Keep container upright. Light sensitive Refrigerate before opening. Pressure buildup over time. Handle & open container with care. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 31 | 1-Butanol | Store in cool place. Keep container upright. Handle & store under inert gas. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 32 | tert-Butanol | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 33 | 2-Butanone | Store in cool place. Keep container upright. Store under inert gas. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Butyl-rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 34 | Carbon disulfide | Store in cool place. Keep container upright. Refrigerate before opening. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Fluorinated rubber gloves | Fluorinated rubber gloves | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 35 | Chlorobenzene | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 36 | Cyclohexene | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Fluorinated rubber gloves | Fluorinated rubber gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |

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|--------------|------|----------------------------|---|--|----------------------------------|-------------|--------------------|---------------------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| FLAMMABLE | | | | chemical or CO ₂ | | | | | | Type ABEK respirator cartridges |
| | 37 | Diethyl ether | Store in cool place. Keep container upright. Light sensitive Heat sensitive Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 38 | Dimethylformamide | Store in cool place. Keep container upright. Handle & store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 39 | Dimethylglyoxime | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 40 | 2,4-Dinitrophenylhydrazine | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 41 | 1,4-Dioxane | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Chloroprene gloves | Chloroprene gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 42 | Ethanol | Store in cool place. Keep container upright. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 43 | Glycerol | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 44 | n-Hexane | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 45 | 1-Hexene | Store in cool place. Keep container upright. | For small fires, use alcohol-resistant foam, dry chemical, or CO ₂ . For large fires, apply large quantities of water as mist or spray. | Safety glasses | Face shield | - | Nitrile gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |

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|--------------|------|--------------------------------|--|--|-------------------------------|------------------------------|---------------------------|---------------------------|--|---|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| FLAMMABLE | 46 | 1-Hexyne | Store in cool place. Keep container upright. | For small fires, use alcohol-resistant foam, dry chemical, or CO ₂ . For large fires, apply large quantities of water as mist or spray. | Safety glasses | Face shield | Fluorinated rubber gloves | Butyl-rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 47 | 2-Hexyne | Store in cool place. Keep container upright. | For small fires, use alcohol-resistant foam, dry chemical, or CO ₂ . For large fires, apply large quantities of water as mist or spray. | Safety glasses | Face shield | | | | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 48 | Methanol | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 49 | Methyl acetate | Store in cool place. Keep container upright. Moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 50 | Petroleum ether, 40 - 60 °C | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 51 | 2-Propanol | Store in cool place. Keep container upright. Handle & store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 52 | Pyridine | Store in cool place. Keep container upright. Heat sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | - | - | Polyvinyl alcohol (PVA) gloves Latex gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 53 | Toluene | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry | Safety glasses | Face shield | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 54 | Triethylamine | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |

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|--------------|------|----------------------------------|---|--|----------------------------------|-------------|---------------------------|---------------------------|---|---|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| FLAMMABLE | 55 | Sodium lauryl sulfate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 56 | Sodium metal | Store in cool place. No contact with water during storage. Handle & store under inert gas. Air sensitive | Dry powder | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 57 | Zinc foil | Store in cool place. No contact with water during storage. | Dry powder | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| HEALTH | 58 | Benzamide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 59 | Chloroform | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 60 | Dichloromethane | Store in cool place. Keep container upright. Heat sensitive Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 59 | Disodium tetraborate decahydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 60 | Lead(II) acetate trihydrate | Store in cool place. Light sensitive Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 61 | Potassium chloride | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Neoprene gloves PVC gloves Latex gloves | Type P95 or dust mask for dust nuisance exposure |
| | 62 | Potassium hexacyano ferrate (II) | Store in cool place. No contact with water during storage. Do not store near acids. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |

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|--------------|------|---------------------------------------|---|--|----------------------------------|-------------|----------------|----------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| HEALTH | 63 | Thiourea | Store in cool place. Handle & store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 64 | Acetanilide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 65 | Aluminum hydroxide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| IRRITANT | 66 | Aluminum nitrate nonahydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 67 | Ammonium carbonate | Store in cool place. Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 68 | Ammonium chloride | Store in cool place. Hygroscopic during storage. Do not store near acids. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 69 | Ammonium iron(II) sulfate hexahydrate | Store in cool place. Air & light sensitive Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or |
| | 70 | Ammonium carbonate | Store in cool place. Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or |

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| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| IRRITANT | | | | | | | | | | type ABEK-P2 respirator cartridges |
| | 71 | Ammonium chloride | Store in cool place. Hygroscopic during storage. Do not store near acids. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 72 | Ammonium iron(II) sulfate hexahydrate | Store in cool place. Air & light sensitive Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 73 | Ammonium iron(II) sulfate hexahydrate | Store in cool place. Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 74 | Ammonium chloride | Store in cool place. Hygroscopic Do not store near acids. | Water spray, alcohol-resistant foam, dry | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator type ABEK-P2 respirator cartridges |
| | 75 | Ammonium iron(II) sulfate hexahydrate | Store in cool place. Air & light sensitive Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or |
| | 76 | Ammonium iron(II) sulfate dodecahydrate | Store in cool place. Recommended storage temperature: 2-8 °C | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 77 | Ammonium oxalate, 99% | Store in cool place. | Foam, dry powder, CO ₂ , water spray, sand | Safety goggles or safety glasses | - | Nitrile gloves | Nitrile gloves | - | Approved mask |
| | 78 | Ammonium oxalate monohydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator |

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| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| IRRITANT | | | | chemical or CO ₂ | | | | | | Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 79 | Aspirin | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 80 | Benzaldehyde | Store in cool place. Air, light, & moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Chloroprene gloves | Butyl-rubber gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 81 | Benzyl alcohol | Store in cool place. Hygroscopic Handle & store under inert gas. Do not store near acids. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 82 | Calcium chloride anhydrous | Store in cool place. Moisture sensitive | Water spray, alcohol-resistant foam, dry | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 83 | Calcium chloride dihydrate | Store in cool place. Hygroscopic | Appropriate FE | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | Type P95 or P1 particle respirator Type OV/AG/P99 or respirator cartridges |
| | 84 | Calcium chloride hexahydrate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 85 | Chitosan MW 100,000 - 300,000 | Store in cool place. Recommended storage temperature: 2-8 °C | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles or safety glasses | - | Nitrile gloves | Nitrile gloves | - | Respirator conforming to 29 CFR 1910.134 or EN 149 |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | RESPIRATORY |
|--------------|------|--|--|---|--|-------------|----------------|----------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| IRRITANT | 86 | Chitosan MW 600,000 - 800,000 | Store in cool place. Recommended storage temperature: 2-8 °C | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety goggles or safety glasses | - | Nitrile gloves | Nitrile gloves | - | Respirator con- forming to 29 CFR 1910.134 or EN 149 |
| | 87 | Citric acid | Store in cool place. | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or respirator cartridges |
| | 88 | Copper(II) sulfate pentahydrate | Store in cool place. Air sensitive Hygroscopic Handle & store under inert gas. | Appropriate FE | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 89 | Cyclohexanol | Store in cool place. Hygroscopic | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 90 | Ethane-1,2-diol | Store in cool place. Hygroscopic | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 91 | Ethylenediamine- tetraacetic acid (EDTA) | Store in cool place. | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 92 | Iodine | Store in cool place. Hygroscopic Handle & store under inert gas. | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 93 | Iodoform | Store in cool place. | Water spray, alcohol- resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 94 | Iron(II) sulfate heptahydrate | Store in cool place. Air sensitive Store under inert gas. Hygroscopic | Appropriate FE | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | |
|--------------|------|-------------------------------------|--|--|----------------------------------|-------------|----------------|----------------|-----------|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| IRRITANT | 95 | Lithium carbonate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 96 | Maleic acid | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 97 | Manganese(II) chloride tetrahydrate | Store in cool place. | Appropriate FE | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 98 | Potassium iodide | Store in cool place. Air, light, & moisture sensitive. | Appropriate FE | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 99 | Potassium oxalate monohydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 100 | Potassium thiocyanate | Store in cool place. Air, light, & moisture sensitive Handle & store under inert gas | Dry powder | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 101 | Sodium carbonate, anhydrous | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 102 | Sodium carbonate decahydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | |
|---------------|------|--|--|--|----------------------------------|------|----------------|----------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| IRRITANT | | | | | | | | | | type ABEK-P2 respirator cartridges |
| | 103 | Sodium iodide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 104 | Sodium oxalate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 105 | Sodium oxalate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 106 | Sodium oxalate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| NON-HAZARDOUS | 107 | Aluminum oxide | Store in cool place. Strongly hygroscopic | Appropriate FE | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 108 | Aluminum potassium sulfate dodecahydrate | Store in cool place. Keep only in original container. | Foam, dry powder, carbon dioxide, spray or sand | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Respirator conforming to 29 CFR 1910.134 or EN 149 |
| | 109 | Antibumping granules | Store in cool place. | Appropriate FE | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Wear approved mask |
| | 110 | L-Ascorbic acid | Store in cool place. Light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | |
|---------------|------|--------------------------------|---|--|----------------------------------|------|----------------|----------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | RESPIRATORY |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| NON-HAZARDOUS | 111 | Calcium carbonate, anhydrous | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 112 | Calcium sulfate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 113 | Copper foil | Store in cool place. Store under inert gas. Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 114 | Dimethylsulfoxide | Store in cool place. Store under inert gas. Hygroscopic | For small fires, use alcohol-resistant foam, dry chemical, or CO ₂ . For large fires, apply large quantities of water as mist or spray. | Safety glasses with side shields | - | - | Nitrile gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 115 | D-(+)-Glucose, anhydrous | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 116 | EDTA disodium salt | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 117 | D-(+)-Fructose | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 118 | Magnesium chloride hexahydrate | Store in cool place. Moisture sensitive Hygroscopic | Appropriate FE | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 119 | Magnesium sulfate, anhydrous | Store in cool place. | Appropriate FE | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 120 | D-(+)-Maltose monohydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | RESPIRATORY |
|---------------|------|------------------------------|----------------------------------|--|----------------------------------|------|----------------|----------------|----------------|---|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| NON-HAZARDOUS | 121 | Potassium hydrogen phthalate | Store in cool place. Hygroscopic | Appropriate FE | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 122 | Potassium phosphate dibasic | Store in cool place. Hygroscopic | Appropriate FE | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 123 | Potassium sulfate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 124 | Silica gel for desiccator | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 125 | Silica gel granular | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 126 | Sodium acetate, anhydrous | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | Type P95 or P1 particle respirator Type OV/AG/P99 or type ABEK-P2 respirator cartridges |
| | 127 | Sodium bicarbonate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 128 | Sodium bromide | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 129 | Sodium chloride | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 130 | Sodium hydrogen carbonate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 131 | Sodium sulfate, | Store in cool place. | Appropriate FE | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | RESPIRATORY |
|---------------|------|---------------------------------|---|--|----------------------------------|-------------|----------------|----------------|----------------|---|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| NON-HAZARDOUS | | anhydrous | Hygroscopic | | | | | | | Type P1 dust masks for dust nuisance exposure |
| | 132 | Sodium sulfate decahydrate | Store in cool place. | Appropriate FE | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 133 | Sodium sulfite | Store in cool place. Never allow product to get in contact with water during storage. Do not store near acids. Air & moisture sensitive | Appropriate FE | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 134 | Sodium thiosulfate pentahydrate | Store in cool place. | Appropriate FE | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 135 | Trisodium citrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 136 | Urea | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| | 137 | Zinc carbonate basic | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | Type N95 or type P1 dust masks for dust nuisance exposure |
| OXIDIZER | 138 | Cadmium nitrate tetrahydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 139 | Ceric ammonium nitrate | Store in cool place. Hygroscopic Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 140 | Cobalt nitrate tetrahydrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | RESPIRATORY |
|--------------|------|--------------------------------|--|--|----------------------------------|------------------------------|----------------|----------------|----------------|--|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| OXIDIZER | 141 | Iron(III) nitrate tetrahydrate | Store in cool place. Hygroscopic Air sensitive Store under inert gas. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 142 | Lead(II) nitrate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 143 | Nitric acid | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | | | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 144 | Perchloric acid | Store in cool place. Keep container upright. | Water spray, alcohol-resistant foam, dry | Safety goggles | Face shield (8-inch minimum) | | | | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 145 | Potassium dichromate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 146 | Potassium iodate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | - | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |
| | 147 | Potassium permanganate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 148 | Potassium persulfate | Store in cool place. Moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 149 | Silver nitrate | Store in cool place. Light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 150 | Silver chlorate | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses with side shields | - | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 151 | Silver nitrite | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator |

| HAZARD CLASS | S.N. | CHEMICAL NAME | STORAGE CONDITION | FIRE EXTINGUISHING MEDIA | PERSONAL PROTECTIVE EQUIPMENT | | | | | RESPIRATORY |
|--------------|------|----------------------|--|--|-------------------------------|------------------------------|---------------------------|---------------------------------|----------------|---|
| | | | | | EYE | FACE | SKIN | | | |
| | | | | | | | FULL CONTACT | SPLASH CONTACT | IMMERSION | |
| OXIDIZER | | | | chemical or CO ₂ | | | | | | P3 respirator cartridges |
| TOXIC | 152 | Aniline | Store in cool place. Keep container upright. Handle under inert gas. Light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Butyl-rubber gloves | Nature latex/chloroprene gloves | - | Multipurpose full-face respirator Type ABEK respirator cartridges |
| | 153 | Barium chloride | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | Full-face particle respirator type N99 Type P2 respirator cartridges |
| | 154 | Bromine | Store in cool place. Keep container upright. Do not store in polyethylene containers. Handle & open container with care. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety goggles | Face shield (8-inch minimum) | Fluorinated rubber gloves | Fluorinated rubber gloves | - | Multipurpose full-face respirator Type AXBEK respirator cartridges |
| | 155 | Cadmium sulfate | Store in cool place. Hygroscopic | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 156 | 1,3-Dinitrobenzene | Store in cool place. | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 157 | Phenol | Store in cool place. Hygroscopic Store under inert gas. Light sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 158 | Phenylhydrazine | Store in cool place. Light sensitive Store under inert gas. Air sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | Butyl-rubber gloves | Chloroprene gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 159 | Sodium azide | Store in cool place. Prevent unauthorized entry. | Dry powder | Safety glasses | Face shield | Nitrile gloves | Nitrile gloves | - | N100 full-face particle respirator P3 respirator cartridges |
| | 160 | Sodium nitroprusside | Store in cool place. Hygroscopic Moisture sensitive | Water spray, alcohol-resistant foam, dry chemical or CO ₂ | Safety glasses | Face shield | - | Nitrile gloves | Nitrile gloves | N100 full-face particle respirator P3 respirator cartridges |