



Product Specification

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HYDROXYLAMINE HYDROCHLORIDE AR/ACS

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| PRODUCT CODE | 545325 |
| SYNONYMS | Hydroxyl Ammonium chloride |
| C.I. NO. | -- |
| CASR NO. | (5470-11-1) |
| ATOMIC OR MOLECULAR FORMULA | NH ₂ OH.HCl |
| ATOMIC OR MOLECULAR WEIGHT | 69.49 |
| PROPERTIES | Hygroscopic. |

NH₂OH.HCl

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| PARAMETER | LIMIT |
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| Description | Colourless hygroscopic crystals/crystalline powder. |
| Solubility | 10% solution in water is clear and colourless. |
| Clarity of alcohol soln. | Passes test. |
| Minimum Assay (NaOH titration) | 99.0% |
| pH (of 5% solution in water) | 2.5 - 3.5 |

MAXIMUM LIMIT OF IMPURITIES

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| Sulphated ash | 0.01% |
| Alcohol insoluble matter | 0.005% |
| Water insoluble matter | 0.003% |
| Titration free acid | 0.25 meq/g. |
| Ammonium (NH ₄) | Passes test |
| Sulphate (SO ₄) | 0.002% |
| Sulphur Compound (as SO ₄) | 0.005% |
| Copper (Cu) | 0.0005% |
| Iron (Fe) | 0.0005% |
| Heavy metals(as Pb) | 0.0005% |





Note(s): 1] Assay (if applicable) method mentioned.

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| DANGER Hazard statements : May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Precautionary statements Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/ vapours/spray. Avoid breathing dust/fume/gas/mist/ vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/ attention. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash | MDG Code : 8/III UN No. : 2923 IATA : 8 |
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| contaminated clothing before reuse. Collect spillage. | |
| Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company. | |
| Hazard Pictogram(s) :- | |
|  GHS05  GHS07  GHS08  GHS09 | |

Replace date 14-Mar-2024