



| IILLSBORO | ELEMENTARY | SCHOOLS |
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OT 0021

| I. Ger | neral Information | | | |
|--|--|--|--|--|
| Chemical Name & Synonyms AMMONIUM HYDROXIDE_, Ammonia_water Chemical Family Alkali Proper DOT Shipping Name AMMONIUM HYDROXIDE Manufacturer Master Chemical Manufacturer's Address | Aqua Ammoni Formulo NH 4 OH /_ DOT Hazard Classific OR M-A Manufacturer's Phan 503-288 Chemtrec Phone Num | NH ₄ OH /_{H ₂ O} ₇ DOT Hazard Classification ORM-A Manufacturer's Phane Number 503-288-6837 Chemtrec Phone Number | | |
| <u>642 N Tillamook St. Portland. OR</u> | <u> </u> | <u>vv</u> | | |
| Principal Hazardous Camponents | Percent | Threshold Limit Value (units) | | |
| NH ₃ | | | | |
| | | | | |
| <u> </u> | Physical Data | | | |
| Boiling Point (°F) 186 ⁰ F | Specific Gravity (H2C | Specific Gravity (H2O = 1) 980 | | |
| Vapar Pressure (mm Hg.) @25 ⁰ C600 | Percent Volatile By V | Paramet Maladia Bu Maluma (94) | | |
| Vapar Density (Air = 1) solubility in Water | *DULYL ACELA pH | 1. | | |
| Appearance & Odor water clear appearance; pungent, | | 11.8 | | |
| | Explosion Hazard D | | | |
| Flash Point (Test Method) | Auto Ignition Temper | Auto Ignition Temperature | | |
| Flammable Limits | 651 ⁰ | LEL 168 by volume UEL 258 by volume | | |
| non-flammable | in air_(NH3 |)air[NH3] | | |
| Water Special Fire Fighting Procedures ~ilute with large volumes of wate | | | | |

| | V. Health Hazaı | rd Data | |
|--|--|--|--|
| Threshold Limit Volve | OSHA Threshold Limit Value 50ppm | | ACGIH Threshold Limit Value |
| Corcinogen - NTP Program This material is not cons | idered as carcinog | | prom her of the agencies |
| occur-with_brief_exposure or liquid severe damage 4 | -EVE: Vapors extre o permanent injury | emly-izza (blindne | ifficulty in breathing may tatingeontact with mist ss) could occur.SKIN:will e-burns-and-tissue damage. |
| Persons with pre-existin Do Not wear contact lens | | | |
| Primary Route(s) of Entry | Skin or eye contac | | |
| Emergency First Aid IF INHALED: Re -baeathingEVE CONTACT: I SKIN CONTACT: Immediately IE SWALLOWED: do not induc | move to fresh air. mmediately flush w flush skin with l e-vomiting: The con | Give art i th lost - osts of r scious ai | ificial respiration if not of running w ater for -30-minu unning water for 30 minutes. ve lats of water, IN-AIL |
| CASES GET THUEDIATE VEDIC | AL ATTENTE Editivity | Data | |
| | ditions To Avoid Leat, Sparks, and Oj | oen flame | 8 |
| Incompatability Ac | ericls to Avoid ids, oxidizing mat | erials | |
| Polymerization X Will Not Occur Hazardous Decomposition Products | ditions To Avoid | , | ((|
| | | | lucts probably nitrogen with |
| | invironmental Prote | | |
| Spill Response wear rubber gl For small spills or drip waste containers. Keep surface waters, and soil | o, mop or wipe up at con-neutralized mat | nd disposi erial out | breathing appratis if necess e of in DOT-approved of sewers, storm drains, |
| Waste Disposal Method Dispose (spills or leaks in a man) Federal, State and Local procedures. NOTF: empty (| f contaminated prod ler_apporved_for_th regulatory agencie. ontainers_can_have | is materi s to asce <u>residues</u> | and are subject to proper |
| waste desposal as abover | II. Special Protection | n Informa | tion |
| Eye Protection Chemical goggles and fu- Respiratory Protection (Specific Type) NIOSH_approved cannister Other Protection | L face shield. Skin l rub respirator. capi | Protection AL ber boots ation Recomm able of m | kali-resistant slicker suit , gloves with gauntlets. mended exhaust ventilation aintaining emmissions at the below PEL. |
| | IX. Special Prec | autions | |
| not use pressure to empty Precautions For Repair & Maintenance | Vent container fro sure. Keep containe container.DO NOT Of Contaminated Equipment | r tightly GET IN EY | closed when not in use. Do ES, <u>ON_SKIN OR</u> ON CLOTHING. |
| Do not cut, grind, weld Other Precautions Containers, even those t vapors. Always obey haza- full. | at have been empti | rd, will | ntainer retain product residue and containers as if they were |