

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor** 

Occupational Safety and Health Administration (Non-Mandatory Form) CHM 00 137

Form Approved OMB No. 1218-0072

X46010089-010

| IDENTITY (As Used on Label and List) HYDRO-BALANCE ULTRA-MAX   | Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to inclicate that. |                         |                                       |                                     |  |
|--|--|-------------------------|---------------------------------------|-------------------------------------|--|
| Section   #H-2001   H-2006   |  |                         |                                       |                                     |  |
| Manufacturer's Name  | Emergency Tele   | ohone Number Du         | ring Transit-                         | INFOTRAC                            |  |
| North American Research Corporation  | (972.) 492-1800 800-535-5053   |                         |                                       |                                     |  |
| Address (Number, Street, City, State, and ZIP Code)  | Telephone Number for Information   |                         |                                       |                                     |  |
| P.O. Box 1318  | ( <u>97</u> 2) 492-  | -1800                   |                                       |                                     |  |
| Lewisville, TX 75067   | Date Prepared 9/02/97  |                         |                                       |                                     |  |
|  | Signature of Pre   | parer (epiional)        | Ader                                  |                                     |  |
| Section II — Hazardous Ingredients/Identity Informatio   | n  |                         |                                       |                                     |  |
| Hazardous Components (Specific Chemical Identity; Common Name(s))  | OSHA PEL   |                         |                                       | ner Limits<br>ommended % (optional) |  |
| Hydrogen Chloride (CAS #7647-01-0)   | 5ppm   | 5ppm                    | 100 IDLH                              | <b>&lt;</b> 80                      |  |
|  |  |                         |                                       |                                     |  |
| NFPA HAZARD RATING pH  | = 1  | 1 SHIPPING DESCRIPTION: |                                       |                                     |  |
| "3" Health   |  | Hydr                    | ochloric Acid                         | l Solution                          |  |
| "0" Flammability   |  | {                       | 3, UN-1789,                           | PGII                                |  |
| "0" Reactivity   |  |                         |                                       |                                     |  |
| Section III — Physical/Chemical Characteristics  |  |                         |                                       |                                     |  |
| Beiling Point  | Specific Gravity (   | H-O = 1)                |                                       |                                     |  |
| 150°F  | Opecine Grainly  | . 120 - 17              |                                       |                                     |  |
| 1  | - T  |                         |                                       | 1.16                                |  |
| Vapor Pressure (mm Hg.)  | Meiting Point  |                         |                                       |                                     |  |
| Q 20°C 78 Vapor Density (AIR = 1)  | Evaporation Rate   |                         |                                       | N/A                                 |  |
| @ 20°C 78 Vapor Density (AIR = 1) 1.27   |  |                         |                                       |                                     |  |
| Q 20°C 78 Vapor Density (AIR = 1)  | Evaporation Rate   |                         |                                       | N/A                                 |  |
| @ 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete   | Evaporation Rate<br>(Butyl Acetate =   |                         |                                       | N/A                                 |  |
| @ 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  | Evaporation Rate<br>(Butyl Acetate =   |                         | · · · · · · · · · · · · · · · · · · · | N/A                                 |  |
| Q 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  Dark Red Liquid; Pungent C  Section IV — Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A   | Evaporation Rate<br>(Butyl Acetate =   | 1)                      |                                       | N/A                                 |  |
| Q 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  Dark Red Liquid; Pungent C  Section IV — Fire and Explosion Hazard Data  Flash Point (Method Used)  | Evaporation Rate<br>(Butyl Acetate =   | 1)                      | LEL                                   | N/A<br>>1                           |  |
| Q 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  Dark Red Liquid; Pungent C  Section IV — Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Non-Flammable  Special Fire Fighting Procedures | Evaporation Rate<br>(Butyl Acetate =<br>Odor.  | 1)                      | LEL N/A                               | N/A<br>>1                           |  |
| Q 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  Dark Red Liquid; Pungent C  Section IV — Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Non-Flammable                                   | Evaporation Rate<br>(Butyl Acetate =<br>Odor.  | 1)                      | LEL N/A                               | N/A<br>>1                           |  |
| Q 20°C 78  Vapor Density (AIR = 1) 1.27  Solubility in Water  Complete  Appearance and Odor  Dark Red Liquid; Pungent C  Section IV — Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Non-Flammable  Special Fire Fighting Procedures | Evaporation Rate<br>(Butyl Acetate =<br>Odor.  | 1)                      | LEL N/A                               | N/A<br>>1                           |  |

|  | Reactivity De   |   |  |   | ביסוש   |
|--|---|---|--|---|---|
|  | Unstable  | ·                                       | Conditions to Avoid Contact  | with strong.ba  | ases can cause violent  |
|  | Stable  | Х                                       |  |   | a amounts of heat.  |
| Jestum, Lub.   | deterials to Avok   | <u>lldes</u>                            | <u>or cesium &amp; rubidium, </u>  | lfate,perchlor<br>phosphides of                             | ric acid,carbides of calcium,<br>calcium & uranium & lithium  |
| Thermal de   | composition   | caus                                    | es hydrogen qas and hy   | drogen chloric  | silicide.   |
| iazardous<br>olymerization   | May Occur   |   | Conditions to Avoid<br>None  |   | vapory.   |
|  | Will Not Occur  | х                                       |  | :   |   |
|  | Health Hazar  |   |  |   |   |
| loute(s) of Entry:   | ini   | halation?                               | X Skin?  | Х   | Ingestion? X  |
| INHALATION Coughing, h   | re burns of<br>: mist & va<br>neadaches &   | mouti<br>por ca<br>rapid                | n, exophagus & stomach<br>an cause irritation of<br>A heartbeat. Concentra                     | . Nausea, pain<br>respiratory t<br>tions above 10           | ed vapors can cause irritation, it at high concentrations, can a womiting frequently occur. Tract with burning, choking, 100ppm can be fatal. |
| Carcinogenicity:   | . N   | IP? No                                  | IARC N   | fonographs? No  | OSHA Regulated? No  |
|  | ated by Exposure  | Asht                                    | "Health Hazards" abov  ma, bronchitis, emphy   |   | ung conditions and  |
| mergancy and F<br>of water, (<br>attention.  | First Aid Procedure<br>Set medical<br>INGESTION:  | s SKIN<br>atter                         | tion. EYES: flush wit  | h large amount<br>er. DO NOT ind                            | sh skin with large amounts of<br>s of water, Get medical<br>uce vomiting, Get medical<br>, administer APR Get medical                         |
|  |   |   | e Handling and Use   |   |   |
|  |   |   |  |   | attention.  |
| Section VII —<br>Reps to Be Take   | n in Case Materia   | is Relea                                | <b>sed or Spilled</b><br>Tre present. Contain :  | spill with dik  |   |
| Section VII —<br>Reps to Be Take<br>Evacuate an  | rea where f   | umes a                                  | re present. Contain  |   | es, etc., & prevent run-off soda ash or dilute with   |
| Section VII —<br>Seps to Be Take<br>Evacuate ar<br>into ground   | rea where f   | umes a                                  | re present. Contain  |   | es, etc., & prevent run-off   |
| Section VII —<br>Steps to Be Take<br>Evacuate ar<br>into ground<br>caustic soc<br>Waste Disposal M   | rea where f<br>d & surface<br>da.   | umes a                                  | re present. Contain  | utralize with   | es, etc., & prevent run-off soda ash or dilute with   |
| Section VII —<br>Steps to Be Take<br>Evacuate ar<br>into ground<br>caustic soc<br>Waste Disposal M<br>Recovered s  | rea where following the surface da.  Method solids or 1                                     | umes a water                            | re present. Contain so or into sewers. New may be sent to a lice                               | utralize with   | es, etc., & prevent run-off soda ash or dilute with r or disposed of in a   |
| Section VII — Steps to Be Take Evacuate ar into ground caustic soc Waste Disposal M Recovered s permitted w Precautions to Be  | rea where for a surface da.  Hethod solids or 1 waste manage Taken in Handlin               | umes a water iquids ement               | s or into sewers. New may be sent to a lice facility. Abide by al                              | utralize with ensed reclaime l federal, sta                 | es, etc., & prevent run-off soda ash or dilute with r or disposed of in a te & local laws.  |
| Section VII — Steps to Be Take Evacuate ar into ground caustic soc Waste Disposal M Recovered s permitted w Precautions to Be Store in                               | rea where f d & surface da.  Method solids or 1 vaste manag Taken in Handlir closed, pr     | water iquids ement operly               | may be sent to a lice facility. Abide by allowing labeled, acid-resista                        | utralize with ensed reclaime l federal, sta ant plastic co  | es, etc., & prevent run-off soda ash or dilute with r or disposed of in a te & local laws.  |
| Section VII — Steps to Be Take Evacuate ar into ground caustic soc Waste Disposal M Recovered s Dermitted w Precautions to Be Store in Other Precautions Read entire | rea where f d & surface da.  Method solids or 1 waste manag Taken in Handlin closed, pr     | iquids ement operly ore us              | may be sent to a lice facility. Abide by allowing labeled, acid-resistating. Do not store near | utralize with ensed reclaime l federal, sta ant plastic co  | es, etc., & prevent run-off soda ash or dilute with  r or disposed of in a te & local laws.  ntainers.  lies or other reactive materia        |
| Section VII — Steps to Be Take Evacuate ar into ground caustic soc Waste Disposal M Recovered s permitted w Precautions to Be Store in Other Precautions Read entire | rea where for the surface da.  Method solids or 1 waste manage Taken in Handling closed, pr | umes a water iquids ement operly ore us | may be sent to a lice facility. Abide by allowing labeled, acid-resistating. Do not store near | ensed reclaime l federal, sta ant plastic co ar strong alka | es, etc., & prevent run-off soda ash or dilute with  r or disposed of in a te & local laws.  ntainers.  lies or other reactive materia        |

concentrations below 5ppm at all times. N/A Mechanical (General) Other N/A N/A

Protective Gloves Eye Protection Chemical goggles Rubber

Other Protective Clothing or Equipment

Where splashing can occur, use Neoprene or PVC rain suit & boots.

Work/Hygienic Practices Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restrooms. Safety showers & eyewash stations must be available in immediate area.