



# Material Safety Data Sheet

## 1.0 Chemical Product and Company Identification:

|     |               |                                                                                |
|-----|---------------|--------------------------------------------------------------------------------|
| 1.1 | Product Name: | <b>ACL 94 Heavy Duty Lime Remover</b>                                          |
| 1.2 | Product Type: | Heavy Duty Lime Remover & Descaler                                             |
| 1.3 | Company       | <b>Noramtech Corporation</b><br>19 Elmwood Avenue<br>Kansas City, Kansas 66103 |
| 1.4 | Phone         | 1-800-643-9070; 1-913-713-4120;<br>Fax 1-913-713-4127                          |
| 1.5 | Emergency     | Chemtrec 1-800-424-9300                                                        |

## 2.0 Hazardous Components

| PRINCIPAL HAZARDOUS COMPOUNDS | CAS #     | Wt%   | THRESHOLD LIMIT VALUE (UNITS) |
|-------------------------------|-----------|-------|-------------------------------|
| Phosphoric acid               | 7664-38-2 | 34-42 | 1ppm                          |

**SECTION 313:**  
**STATE RIGHT-TO-KNOW REGULATIONS:**  
**CALIFORNIA PROPOSITION 65:**

## 3.0 Physical Data

|     |                          |                           |
|-----|--------------------------|---------------------------|
| 3.1 | Appearance:              | Fluorescent Yellow Liquid |
| 3.2 | Solubility in water:     | Complete                  |
| 3.3 | PH 0.5% Solution         | 1-4                       |
| 3.4 | Boiling Point            | NA                        |
| 3.5 | Flash Point              | Does not burn             |
| 3.6 | Vapor Pressure           | NA                        |
| 3.7 | Specific Gravity/Density | 1.2 – 1.3                 |

## 4.0 Fire and Explosion Data

|     |                        |                                                                                                                                                      |
|-----|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.1 | Special Fire Hazards:  | Always wear NIOSH-approved self-contained breathing apparatus when fighting chemical fires. Spills can cause slippery floors. Product highly acidic. |
| 4.2 | Fire Fighting Methods: | None known                                                                                                                                           |

## 5.0 Reactivity Data

|     |                                   |                                           |
|-----|-----------------------------------|-------------------------------------------|
| 5.1 | Stability:                        | Yes                                       |
| 5.2 | Conditions to Avoid:              | Do not mix with strong bases or oxidants. |
| 5.3 | Hazardous Decomposition Products: | None known                                |

## 6.0 Spill or Leak Procedures

|     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1 | Cleanup and Disposal: | Spills should be swept up and disposed of in accordance with federal regulations. Sewer in accordance with local, state, and federal regulations. Prior permitting may be required before any detergent chemicals can be put into city sewers. Triple rinse containers. Puncture and dispose of in any sanitary landfill. Burning permissible if allowed by local regulations. Stay out of smoke. Ventilate area. Reclaim for reuse or flush to sewer. Spill will cause slippery floors. |
|-----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 7.0 Health Hazard Data

|     |                          |                                                                                                                                                                                                                                                   |
|-----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1 | Effects of overexposure: | <b>Eyes:</b> Irritant<br><b>Skin:</b> Irritant<br><b>Ingestion:</b> Will irritate mucous membranes. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea if swallowed.<br><b>Inhalation:</b> Irritant<br><b>Chronic Exposure:</b> |
|-----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8.0 First Aid

|     |                    |                                                                                                 |
|-----|--------------------|-------------------------------------------------------------------------------------------------|
| 8.1 | <b>Eyes:</b>       | Flush with running cool water for 10-15 minutes and see physician.                              |
| 8.2 | <b>Skin:</b>       | Wash thoroughly with soap and water.                                                            |
| 8.3 | <b>Ingestion:</b>  | Drink large amount of water or milk and transport to an emergency medical center for attention. |
| 8.4 | <b>Inhalation:</b> | Remove person to fresh air.                                                                     |

## 9.0 Protective Measures

|     |                                |                                                   |
|-----|--------------------------------|---------------------------------------------------|
| 9.1 | <b>Eyes Protection:</b>        | Safety glasses or goggles                         |
| 9.2 | <b>Skin Protection:</b>        | Chemical resistant gloves for prolonged exposure. |
| 9.3 | <b>Respiratory Protection:</b> | None required.                                    |
| 9.4 | <b>Ventilation Protection:</b> | Local Exhaust                                     |

## 10.0 Special Precautions

|      |                                          |                                                                                                                                                                                                                     |
|------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.1 | <b>Handling and Storage Precautions:</b> | Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Remove and launder contaminated clothing before reuse. Avoid breathing vapors. Keep container closed.<br>KEEP OUT OF REACH OF CHILDREN |
| 10.2 | <b>Transport Information</b>             | DOT Class: Compounds, Cleaning Liquid, 8, NA1760, PGII<br>DOT Proper Shipping Name: Refer to bill of lading or container label for DOT or other transportation hazard classification if any.                        |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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