



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,
Baie d'Urfé, QUEBEC, H9X 0A2
CANADA

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|--------------------------|
| Nutrafin test kit |
| NH₃ #2 |
| A7857 |

| Section I. Product identification and uses | | Section II. Hazardous ingredients | |
|---|---------------------------------------|-----------------------------------|---------------------------|
| Product name | Ammonia reagent #2 | - Sodium hydroxide | 3 - 5 % |
| Chemical formula | Mixture | CAS: 1310-73-2 | TLV : 2 mg/m3 (ceiling) |
| Chemical family | Mixture | | |
| Material uses | Reagent to determine ammonia in water | | |
| Section III. Physical data | | | |
| Physical state and appearance/ Odor | Clear colourless liquid. Odorless. | | |
| pH | 13 - 14 | | |
| Percent volatile | > 95 % | | |
| Freezing point | Not available | | |
| Boiling point | Not available | | |
| Specific gravity | 1.05 | | |
| Vapor density | Not available | | |
| Vapor pressure | Not available | | |
| Evaporation rate | Not available | | |
| Solubility | Soluble in water | | |
| Section IV. Fire and explosion data | | | |
| - Flash point : Not applicable - Flammable limits: Non flammable -Auto-ignition temperature: Not applicable | | | |
| Section V. Reactivity data | | | |
| - Stability: Stable under normal conditions. Avoid high temperatures and contamination. | | | |



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| Section VI. Toxicological properties | |
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| Routes of entry | |
| Effects of acute exposure | Corrosive! Dangerous by ingestion, inhalation or skin absorption. |
| Eye | Causes severe burns. Permanent blindness may occur. |
| Skin | Causes severe burns if the exposed area is not washed immediately. |
| Inhalation | If inhaled, may cause nose or throat irritation. |
| Ingestion | Swallowing this material causes severe burns to the mouth, throat and stomach. Can cause death. |
| Effects of chronic overexposure | To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. |

| Section VII First aid measures | |
|--------------------------------|---|
| Eye contact | Immediately flush with copious quantities of water for a minimum of 30 minutes holding lids apart to ensure flushing of the entire surface. If irritation persist, repeat flushing. Seek immediate medical attention. |
| Skin contact | Remove the contaminated clothes and flush with plenty of water for a minimum of 20 minutes. |
| Inhalation | If inhaled, remove patient to fresh air. If symptom persist, obtain medical attention. |



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| Ingestion | Have conscious person drink several glasses of water or milk. Obtain medical attention immediately. |
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| Section VIII. Preventive measures | |
|---|--|
| Protective clothing in case of spill and leak | Not applicable |
| Spill and leak | Absorb spill with inert materials such as clays, sand, earth, or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. Do not empty into drain. |
| Waste disposal | According to all applicable regulations. |
| Storage and handling | Store in cool dry place. Keep containers closed. |

| Section IX. Protective measures | |
|---------------------------------|----------------|
| Protective clothing | Not applicable |
| Engineering controls | Not applicable |

| Section X. Other information | |
|---------------------------------|---|
| Special precautions or comments | Before eating, drinking or smoking, wash face hands thoroughly with soap and water. |