



## Northwood Research Institute

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**March 22, 2024**

Dear Detective Jensen,

As requested, I am providing a list of the chemicals recently opened and in active use within Dr. Eleanor Vance's laboratory. For your reference, I have attached the corresponding Material Safety Data Sheets (MSDS) for each of these substances.

Please note that several of the chemicals — and the specific ways they were being applied in our experiments — are unpublished and confidential research materials. I kindly ask that this information be kept private and not released beyond the scope of your investigation.

I am still deeply shaken by Eleanor's passing. She was not only my colleague but also someone who had a profound impact on my life. I will continue to provide any information or assistance you may require as your investigation proceeds.

Thank you for your understanding and for handling this matter with discretion.

Sincerely,

Renee Carter



# Northwood Research Institute

## Material Safety Data Sheet (MSDS) – Simplified

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**Substance Name:** Ammonium Hydroxide

**Common Use:** Cleaning agent, reagent

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### 1. Identification

Clear, colorless liquid

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### 2. Hazards

- **Corrosive/Irritant:** Burns skin, eyes
  - **Inhalation:** Strong irritation, coughing, difficulty breathing
  - **Ingestion:** Stomach pain, vomiting
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### 3. First Aid

- **Skin Contact:** Wash with water
  - **Eye Contact:** Flush with water, seek medical care
  - **Inhalation:** Fresh air, medical help if severe
  - **Ingestion:** Rinse mouth, seek immediate medical help
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### 4. Toxicity

Can enter the blood stream by both ingestion and inhalation. Blood levels rarely reach above 250 ng/ml by inhalation.

Toxic blood level 420 ng/ml



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## Material Safety Data Sheet (MSDS) – Simplified

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**Substance Name:** Chloroxyline

**Common Use:** Reagent, Solvent

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### 1. Identification

Clear, colorless liquid

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### 2. Hazards

- **Inhalation:** Irritation, dizziness
  - **Ingestion:** Dizziness, nausea, intoxication
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### 3. First Aid

- **Skin Contact:** Wash with water
  - **Eye Contact:** Flush with water, seek medical care
  - **Inhalation:** Fresh air, medical help if severe
  - **Ingestion:** Rinse mouth, seek immediate medical help
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### 4. Toxicity

Can enter the blood stream by both ingestion and inhalation. Blood levels rarely reach above 1 ml/L by inhalation.

- **Inhalation:** Few symptoms
- **Ingestion:** May cause burns to stomach

Toxic blood level (8 ml/L)



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## Material Safety Data Sheet (MSDS) – Simplified

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**Substance Name:** Dihydrogen Monoxide

**Common Use:** Universal solvent, cleaning, cooling

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### 1. Identification

Clear, colorless liquid

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### 2. Hazards

- Generally safe. Large spills may cause slips/falls
  - Contaminated samples may carry pathogens
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### 3. First Aid

- No special measures required
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### 4. Toxicity

Can enter the blood stream by both ingestion and inhalation. Considered safe for both ingestion and inhalation of vapor under normal use.

Toxic blood level N/A



# Northwood Research Institute

## Material Safety Data Sheet (MSDS) – Simplified

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**Substance Name:** Ethanol

**Common Use:** Solvent, disinfectant, fuel additive

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### 1. Identification

Clear, colorless liquid

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### 2. Hazards

- **Flammable:** Vapors may ignite
  - **Ingestion:** Dizziness, nausea, intoxication
  - **Inhalation:** Irritation, dizziness
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### 3. First Aid

- **Skin Contact:** Wash with soap and water
  - **Eye Contact:** Rinse with water
  - **Inhalation:** Move to fresh air
  - **Ingestion:** Seek medical attention if large amount consumed
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### 4. Toxicity

Can enter the blood stream by both ingestion and inhalation. May enter the blood stream faster via inhalation of fumes. Requires large exposure (both inhalation and/or ingestion) before blood levels reach toxic levels.

Toxic blood level (200 mg/dL)



# Northwood Research Institute

## Material Safety Data Sheet (MSDS) – Simplified

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**Substance Name:** Hydrochloric Acid

**Common Use:** Laboratory reagent, cleaning, chemical synthesis

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### 1. Identification

Clear, colorless to slightly yellow liquid

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### 2. Hazards

- **Corrosive:** Causes severe burns to skin, eyes, and mucous membranes
  - **Inhalation:** Irritation to respiratory system, coughing, choking
  - **Ingestion:** Severe internal damage, potentially fatal
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### 3. First Aid

- **Skin Contact:** Rinse immediately with water for 15 minutes
  - **Eye Contact:** Rinse thoroughly with water; seek medical help immediately
  - **Inhalation:** Move to fresh air; seek medical attention if symptoms persist
  - **Ingestion:** Do NOT induce vomiting; seek immediate medical attention
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### 4. Toxicity

Normally does not enter the blood stream via inhalation or ingestion

- **Inhalation:** May cause chemical burns to esophagus and lungs.
- **Ingestion:** May cause burns to esophagus and stomach.

Toxic blood level N/A