



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: α -Naphthaleneacetic Acid Solution (1 mg/mL)
PRODUCT NUMBER: N605
COMPANY INFO: *PhytoTechnology Laboratories*®
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: Research Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories*® are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: NAA; 1-Naphthaleneacetic Acid

CAS No: 86-87-3

Formula: $C_{12}H_{10}O_2$

Molecular Weight: 186.2

| Ingredient | CAS Number | Percent | Hazardous |
|----------------------------------|------------|---------|---|
| α -Naphthaleneacetic Acid | 86-87-3 | 0.1 % | No exposure limits established by OSHA or ACGIH |
| Potassium Hydroxide 1.0 N | 1310-58-3 | 1-5 % | ACGIH TLV: 2 mg/m ³ |
| Water | 7732-18-5 | 94-99 % | No exposure limits established by OSHA or ACGIH |

4. FIRST AID MEASURES

| Route of Entry | Symptoms | First Aid Procedures |
|----------------|---|--|
| Ingestion | May cause irritation if swallowed | If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. |
| Inhalation | May cause irritation to respiratory tract | Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention. |
| Eye Contact | Direct contact may cause irritation. May cause redness, tearing, or blurred vision. | Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. |

Skin Contact Irritating. May cause reddening, itching or inflammation. Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation persists.**

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Recommended Storage Temperature: 2 to 6 °C

Incompatibilities: Strong oxidizing agent, strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

 Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

 Skin Protection: Protective gloves

 Body Protection: Lab coat

 Respiratory Protection: Respiratory protection is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, clear liquid

pH (Neat): Under Development (5.0 – 8.0 suspected range)
 Solubility: Miscible with Water
 Melting Range: 134.5 – 135.5 °C
 Vapor Density: No data available
 Vapor Pressure: No data available
 Specific Gravity: ~1
 Odor: May have slight pungent odor
 Odor Threshold: No data available
 Viscosity: No data available
 Relative Density: No data available
 Evaporation Rate: No data available
 Initial Boiling Point and Boiling Range: No data available
 Flammability (solid, gas): No data available
 Partition coefficient: No data available
 n-octanol/water):
 Auto-ignition Temperature: No data available
 Decomposition Temperature: No data available
 Flash Point (Closed Cup): No data available
 Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
 Chemical Stability: Stable under normal conditions of use
 Possibility of Hazard Reactions: Will not occur
 Conditions to Avoid: Direct light
 Incompatibles Materials: Strong oxidizing agents, strong bases
 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 1000
 LD₅₀ (IP-Rat)(mg/Kg): 100
 LD₅₀ (Oral-Mouse)(mg/Kg): 743

Carcinogenicity: NTP: No
 IARC: No
 Z List: No
 OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with Overexposure: Irritation, itching, gastrointestinal upset, possible mutagenic effects, inflammation, nausea, headache, vomiting

Specific Target Organ Toxicity: Single Exposure: No data available
 Repeated Exposure: No data available

Target Organs: Central nervous system

Medical Conditions: None identified
Aggravated By Exposure:
Routes of Entry: Ingestion, inhalation, skin and eye contact
NIOSH/RTECS NO: Not listed

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.
EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.):
Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG:
Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA:
Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 7732-18-5 Water
1310-73-2 Sodium hydroxide

New Jersey Right to Know Components: CAS No.: 7732-18-5 Water

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

| | | | | |
|--------------|----------------------|------------------------------|--------------------------|------------------------|
| HMIS Rating: | Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
| | 0 | * | 0 | 0 |
| NFPA Rating: | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
| | 0 | 0 | 0 | |

*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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