



**Tri-DWARF**  
Industrial Co., Ltd

**Tri-DWARF INDUSTRIAL CO., LTD.**

ADD: Caifugangwan, No.398 Jiahe Road, Huli District, Xiamen, China, 361006

Tel: 86-592-5230984 / Fax: 86-592-3788260

Email: sales@plantchemical.com

Website: www.plantchemical.com

## Material Safety Data Sheet

### Alpha-Naphthalene acetic acid (NAA)

#### 1: Chemical Product and Company Identification

**Product Name:** Alpha-Naphthalene acetic acid (NAA)

**Catalog Code:** 30631016-1, 30631016-2, 30631016-3

**CAS#:** 86-87-3

**RTECS:** Not available.

**TSCA:** TSCA 8(b) inventory : No products were found.

**CI#:** Not available.

**Synonym:** Alpha-Naphthaleneacetic Acid

**Chemical Name:** 1-Naphthaleneacetic acid

**Chemical Formula:** C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>COOH

#### 2: Composition and Information on Ingredients

**Composition:**

Name	CAS#	% by Weight
Alpha-Naphthalene acetic acid (NAA)	86-87-3	-

**Toxicological Data on Ingredients:**

LD<sub>50</sub> (Oral, Rat): 1000 mg/kg.

#### 3: Hazards Identification

**Potential Acute Health Effects:** Harmful if swallowed. Causes irritation to skin, eyes and mucous membranes.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

#### 4: First Aid Measures

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention.

**Skin Contact:** Immediately flush with plenty of water. If irritation persists, get medical attention.

**Serious Skin Contact:** Not available.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

**Serious Inhalation:** Not available.

**Ingestion:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person.

**Serious Ingestion:** Not available.

#### 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** > 174 °C (345 °F)

**Flammable Limits:** Not available.

**Product of Combustion:** Combustion will produce carbon dioxide and probably carbon monoxide.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**  
Not available.

#### **Fire Fighting Media and Instructions:**

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Water spray, carbon dioxide, dry chemical powder.

**Special Remarks on Fire Hazards:** Fire or excessive heat may produce hazardous decomposition products.

**Special Remarks on Explosion Hazards:** Not available.

#### 6: Accidental Release Measures

**Small Spill:** Recover for use if not contaminated. Wearing suitable protective clothing, sweep up material and place in fiber carton for disposal, and incinerate. Wash spill area well with soap and water.

**Large Spill:** Not available.

#### 7: Handling and Storage

**Precautions:** Wash thoroughly after handling. Do not get in eyes, on skin, on clothing. Avoid breathing dust. Remove and

wash contaminated clothing.

**Storage:** Keep container tightly closed when not in use. Store in a cool, dry place away from oxidizing materials.

### 8: Exposure Controls/Personal Protection

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**Personal Protection:** Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Boots. Dust respirator. Gloves.

**Exposure Limits:** Not available.

### 9: Physical and Chemical Properties

**Physical State and Appearance:** Crystalline powder.

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** 186.2 g/mole.

**Color:** White to cream.

**pH(1% soln/water):** Not available.

**Boiling Point:** >218 °C (424 °F)

**Melting Point:** 127-132 °C (260-269 °F)

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapour Pressure:** Negligible.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Not available.

### 10: Stability and Reactivity Data

**Stability:** Stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excessive temperature and heat.

**Incompatibility with various substances:** Strong oxidizing materials.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

### 11: Toxicological Information

**Routes of Entry:** Skin contact. Eye contact.

**Toxicity to Animals:**

LD<sub>50</sub> (Oral, Rat): 1000 mg/kg.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

### 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Product of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

### 13: Disposal Considerations

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14: Transport Information

**DOT Classification:** Not a DOT controlled material.

**Identification:** Not available.

**Special Provisions for Transport:** Not available.

### 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory : No products were found.

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS(Canada):** Not available.

**DSCL(EEC):** Not available.

**HMIS(U.S.A):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 1

**Personal Protection:**

**National Fire Protection Association (U.S.A):**

**Health:** 1

**Flammability:** 1

**Reactivity:** 1

**Specific hazard:**

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Safety goggles.

### 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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