



## SAFETY DATA SHEET

### SECTION I - IDENTIFICATION

**PRODUCT NAME:** 2-Aminodiphenyl ether  
**CAS #:** 2688-84-8

Manufacturer's Name: **CHEM-IS-TRY, INC.**  
Address: **160-4 LIBERTY ST.**  
**METUCHEN, NJ 08840**

Telephone #: **(732) 372- 7311** Secondary Telephone No: **CHEMTREC**  
FAX #: **(732) 372- 7312** **(800) 424-9300**  
**24 Hours a Day**

#### **Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Laboratory chemicals, synthesis of substances

### SECTION II - HAZARDS IDENTIFICATION

#### **Classification of the substance or mixture**

##### **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

#### **GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

Hazard statement(s)

H302 + H312 + H332  
H315  
H319  
H335

Harmful if swallowed, in contact with skin or if inhaled  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/ eye protection/ face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

|                    |  |
|--------------------|--|
| P304 + P340        | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTER or doctor/ physician if you feel unwell.  |
| P322               | Specific measures (see supplemental first aid instructions on this label).   |
| P330               | Rinse mouth.   |
| P332 + P313        | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313        | If eye irritation persists: Get medical advice/ attention.   |
| P362               | Take off contaminated clothing and wash before reuse.  |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P405               | Store locked up.   |
| P501               | Dispose of contents/ container to an approved waste disposal plant.  |

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

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### **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substances**

|                   |                                    |
|-------------------|------------------------------------|
| Synonyms:         | 2-Phenoxyaniline                   |
| Formula:          | C <sub>12</sub> H <sub>11</sub> NO |
| Molecular Weight: | 185.22 g/mol                       |
| CAS-No.:          | 2688-84-8                          |
| EC-No.:           | 220-254-8                          |

#### **Hazardous components**

| Component             | Classification  | Concentration |
|-----------------------|---|---------------|
| 2-Aminodiphenyl ether | Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302 + H312 + H332, H315, H319, H335 |               |

Section 16 for the full text of the H-Statements mentioned in this section.

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### **SECTION IV - FIRST AID MEASURES**

#### **Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**, wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**, flush eyes with water as a precaution. Consult a physician.

**If swallowed**, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### **Most important symptoms and effects, both acute and delayed.**

The most important known symptoms and effects are described in the labelling (see section II) and/or in section XI

##### **Indication of any immediate medical attention and special treatment needed**

No data available

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## **SECTION V - FIREFIGHTING MEASURES**

### **Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Special hazards arising from the substance or mixture**

No data available

#### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

No data available

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## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section VIII.

### **Environmental precautions**

Do not let product enter drains. Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **Reference to other sections**

For disposal see section XIII.

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## **SECTION VII - HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section II

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): XIII: Non-Combustible Solids

### **Specific end use(s)**

Apart from the uses mentioned in section I, no other specific uses are stipulated.

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## **SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

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## **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

|  |  |
|--|--|
| a) Appearance:                                   | Form: powder<br>Color: white to tan        |
| b) Odor:   | No data available                          |
| c) Odor Threshold:                               | No data available                          |
| d) pH:   | No data available                          |
| e) Melting point/freezing point:                 | Melting point/range: 45 - 49 °C (lit.)     |
| f) Initial boiling point and boiling range:      | 170 °C (338 °F) at 24 hPa (18 mmHg) - lit. |
| g) Flash point:                                  | 113 °C (235 °F) - closed cup               |
| h) Evaporation rate:                             | No data available                          |
| i) Flammability (solid, gas):                    | No data available                          |
| j) Upper/lower flammability or explosive limits: | No data available                          |
| k) Vapor pressure:                               | No data available                          |
| l) Vapor density:                                | No data available                          |
| m) Relative density:                             | No data available                          |
| n) Water solubility:                             | No data available                          |
| o) Partition coefficient: n-octanol/water        | No data available                          |
| p) Auto-ignition temperature:                    | No data available                          |
| q) Decomposition temperature:                    | No data available                          |
| r) Viscosity:                                    | No data available                          |
| s) Explosive properties:                         | No data available                          |

t) Oxidizing properties: No data available

**Other safety information**

No data available

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**SECTION X - STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions - Carbon oxides, Nitrogen oxides

Other decomposition products - No data available

In the event of fire: see section V

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**SECTION XI - TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity**

**Skin corrosion/irritation:**

No data available

**Serious eye damage/eye irritation:**

No data available

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No data available

NTP: No data available

OSHA: No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: BY7940000

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**SECTION XII - ECOLOGICAL INFORMATION**

**Toxicity**

Toxicity to fish                      No data available

Toxicity to algae                      No data available

**Persistence and degradability**

Biodegradability                      No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

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**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION XIV - TRANSPORT INFORMATION**

**DOT (US)**                      Not dangerous goods

**IMDG**                              Not dangerous goods

**IATA**                                Not dangerous goods

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**SECTION XV - REGULATORY INFORMATION**

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute health hazards

**Massachusetts Right To Know Components**

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

**Pennsylvania Right To Know Components**

|                       |                      |               |
|-----------------------|----------------------|---------------|
| 2-Aminodiphenyl ether | CAS-No.<br>2688-84-8 | Revision Date |
|-----------------------|----------------------|---------------|

**New Jersey Right To Know Components**

|                       |                      |               |
|-----------------------|----------------------|---------------|
| 2-Aminodiphenyl ether | CAS-No.<br>2688-84-8 | Revision Date |
|-----------------------|----------------------|---------------|

**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.

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**SECTION XVI - OTHER INFORMATION**

See full text of H-Statements under sections II and III.

|                    |  |
|--------------------|--|
| Acute Tox.         | Acute toxicity   |
| Eye Irrit.         | Eye irritation   |
| H302               | Harmful if swallowed.                                    |
| H302 + H312 + H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H312               | Harmful in contact with skin.                            |
| H315               | Causes skin irritation.                                  |
| H319               | Causes serious eye irritation.                           |

**HMIS Rating**

|                        |   |
|------------------------|---|
| Health hazard:         | 2 |
| Chronic Health Hazard: |   |
| Flammability:          | 1 |
| Physical Hazard        | 0 |

**NFPA Rating**

|                    |   |
|--------------------|---|
| Health hazard:     | 2 |
| Fire Hazard:       | 1 |
| Reactivity Hazard: | 0 |

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