

## Phenyl-d<sub>5</sub>-acetaldehyde

### **Section 1. Chemical product and company identifications**

**Product code:** D-8262

**Chemical formula:** C<sub>8</sub>H<sub>9</sub>D<sub>5</sub>O

**CAS:** 879549-73-2

**CAS (unlabelled):** 122-78-1

**Synonyms:** 2-phenylacetaldehyde, Benzeneacetaldehyde

#### **Supplier / Manufacturer:**

**C/D/N Isotopes Inc.**

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#### **In case of emergency:**



### **Section 2. Hazards identifications**

#### **GHS (Globally Harmonized System of Classification and Labelling of Chemicals):**

##### **GHS Classification:**

- Acute toxicity, oral (Category 4)
- Skin corrosive (Category 1B)
- Skin sensitization (Category 1A)
- Serious Eye Damage (Category 1)
- Flammable liquids (Category 4)

##### **GHS Label elements:**

- Pictograms:  
- Signal word: Danger

##### **Hazards statement:**

- H227 Combustible liquid
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H317 May causes an allergic skin reaction
- H318 Causes serious eye irritation

##### **Precautionary statement:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Obtain special instructions before use
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
- P303 + P361+ P354 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
- 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.
- P330 Rinse mouth.
- P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
- P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

- P403 Store in a well-ventilated place.
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant

### **Section 3. Composition and information on ingredients**

<b>Name</b>	<b>CAS</b>	<b>Concentration %</b>
Phenyl-d <sub>5</sub> -acetaldehyde	879549-73-2	> 90

### **Section 4. First aid measures**

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

**Indication of immediate medical attention and special treatment needed, if necessary:** No data available

**Most important symptoms and effects, both acute and delayed:** No data available

### **Section 5. Firefighting measures**

**Flammability of the product:** Flammable in the presence of a source of ignition when the temperature is above the flash point.

**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides.

**Firefighting media and instructions:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### **Section 6. Accidental release measures**

**Personal precautions:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### **Section 7. Handling and storage**

**Handling:** Avoid contact with skin and eyes. Avoid formation of mist and aerosols. Provide appropriate exhaust ventilation.

**Storage:** STORE REFRIGERATED. Adequate ventilation.

### **Section 8. Exposure Controls, Personal Protections**

**Engineering controls:** Use mechanical exhaust or laboratory fume hood to avoid exposure.

**Eyes:** Safety glasses with side-shields conforming to NIOSH (US) or EN 166(EU).

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Section 9. Physical and chemical properties (unlabelled)**

**Molecular weight:** 120.15 g/mol  
**Physical status:** Liquid  
**Color:** Colorless to light yellow  
**Odour:** No data available  
**Density:** 1.03 g/cm<sup>3</sup>  
**Melting point:** -10 °C (14 °F)  
**Boiling point:** 195 °C (383 °F)  
**Vapour pressure:** 2.67 hPa (2 mmHg) at 25 °C (77 °F)  
**Vapour density:** 4.15 (Air = 1)  
**Partition coefficient (octanol/water):** Log Pow: 1.44 at 25 °C (77 °F)  
**Water solubility:** 18 g/l  
**Lower explosion limit:** No data available.  
**Upper explosion limit:** No data available.  
**Auto-ignition temperature:** No data available.  
**Flash point:** 68 °C (154.4 °F)

## **Section 10. Stability and reactivity**

**Stability and reactivity:** Stable under recommended storage conditions.  
**Incompatibility:** Strong oxidizing agents  
**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides.  
**Reactivity conditions:** No data available.

## **Section 11. Toxicological information (unlabelled)**

**Toxicological data:** Phenylacetaldehyde

### **Information on ingredients:**

<b>Name</b>	<b>CAS</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
Phenylacetaldehyde	122-78-1	Rat - Oral - 1,550 mg/kg Mouse - Oral - 3,890 mg/ kg Rabbit - dermal - > 5,000 mg/kg Guinea pig - oral - 3,890mg/kg	No data available

### **Potential acute effects**

- **Eyes:** Causes serious eye damage
- **Skin:** Causes skin irritation, causes skin sensitization
- **Inhalation:** No data available
- **Ingestion:** Harmful if swallowed

### **Potential chronic effects**

- **Carcinogenic effects:** 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **Mutagenic effects:** No data available.
- **Teratogenic effects:** No data available.
- **Medical conditions aggravated by overexposure:** No data available.

## **Section 12. Ecological information**

### **Ecological data:**

<b>Name</b>	<b>Results</b>	<b>Species</b>	<b>Period</b>
Phenylacetaldehyde	No data available		

**Effects on environment:** No data available.

**Mobility:** No data available.

**Environmental precautions:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

## **Section 13. Disposal considerations**

**Waste disposal:** Contact a licensed professional waste disposal service to dispose of this material.

## **Section 14. Transportation information**

### **Classification DOT/IMDG/IATA label:**

**Shipping name:** flammable liquid, n.o.s. (phenylacetaldehyde)  
**UN number:** UN1993  
**Class:** 3  
**Packaging group:** III

**Additional information:** None

## **Section 15. Regulatory information**

### **UNITED STATES:**

#### **NFPA classification**



Health: 2  
Flammable: 1  
Reactivity: 0  
Special conditions: None

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

### **U.S. Federal regulations:**

**California proposition 65 requirements :** Not Listed  
**SARA section 313 (specific toxic chemical listings) :** Not listed  
**CERCLA reportable quantity :** Not listed  
**Sections 302-304 reportable quantity :** Not listed  
**Community Right-to-Know (Sections 311 and 312) :** Not Listed

## **Section 16. Additional information**

**Date of issue:** September 8<sup>th</sup>, 2023

**Version:** 2

**Elaborated by:** Toxyscan Inc., 1-866-780-0599

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*This safety data sheet has been prepared in accordance with the OSHA (USA), WHMIS (Canada) / GHS classification rules in effect at the time of writing.*