

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name :  $\beta$ -Hydroxypyruvic acid  
 Product Number : 06372  
 Brand : Fluka  
 Company : Sigma-Aldrich Canada, Ltd  
 2149 Winston Park Drive  
 OAKVILLE ON L6H 6J8  
 CANADA  
 Telephone : +1 9058299500  
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 Emergency Phone # : 800-424-9300

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C3H4O4  
 Molecular Weight : 104.06 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>beta -Hydroxypyruvic acid</b>			
1113-60-6	-	-	-

**3. HAZARDS IDENTIFICATION****WHMS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant  
 E Corrosive

**HMIS Classification**

Health Hazard: 3  
 Flammability: 0  
 Physical hazards: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.  
**Skin** May be harmful if absorbed through skin. Causes skin burns.  
**Eyes** Causes eye burns.  
**Ingestion** Harmful if swallowed. Causes burns.

**4. FIRST AID MEASURES****General advice**

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

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**If inhaled**

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

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point no data available  
 Ignition temperature no data available

**Suitable extinguishing media**

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

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

**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.

**7. HANDLING AND STORAGE****Handling**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

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

Recommended storage temperature: 2 - 8 °C

hygroscopic Store under inert gas. Keep in a dry place.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form powder  
 Colour beige

**Safety data**

pH no data available  
 Melting point no data available  
 Boiling point no data available  
 Flash point no data available  
 Ignition temperature no data available  
 Lower explosion limit no data available  
 Upper explosion limit no data available  
 Water solubility no data available  
 Partition coefficient: log Pow: -0.711  
 n-octanol/water

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**11. TOXICOLOGICAL INFORMATION**

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**Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

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.

**Potential Health Effects**

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**Skin** May be harmful if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

**Ingestion** Harmful if swallowed. Causes burns.

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed solvent and waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3261 Class: 8 Packing group: III  
 Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (beta -Hydroxypyruvic acid)  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B  
 Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (beta -Hydroxypyruvic acid)  
 Marine pollutant: No

**IATA**

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UN-Number: 3261 Class: 8 Packing group: III  
 Proper shipping name: Corrosive solid, acidic, organic n.o.s. (beta -Hydroxypyruvic acid)

**15. REGULATORY INFORMATION****DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

beta -Hydroxypyruvic acid CAS-No. 1113-60-6

**WHMS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant  
 E Corrosive

**16. OTHER INFORMATION****Further information**

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