

# Safety Data Sheet

### Section 1. Product and Company Identification

Product Name Cyclophosphamide monohydrate

Product ID C9609

**Chemical Name** 

Cycloblastin; Cyclostin; Cytoxan; Endoxan

(Synonyms)

**Supplier** 

LKT Laboratories, Inc. 545 Phalen Blvd.

St. Paul, MN 55130 USA

Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com

**Emergency Phone #** 

1-800-424-9300

### Section 2. Hazards Identification

**GHS Classification** 

Acute toxicity, Oral (Category 3), H301 Carcinogenicity (Category 1B), H350

### GHS Label elements including precautionary statements

**Pictogram** 





Signal word

Danger

### Hazard and precautionary statements

**Hazard statements** 

H301 - Toxic if swallowed. H350 - May cause cancer.

Precautionary statements

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P281 - Use personal protective equipment as required.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P405 - Stored locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification** 

Health hazard: 2 Chronic health hazard: \* Flammability: 1 Physical hazard: 0

**NFPA Rating** 

Health hazard: 2 Fire hazard: 1 Reactivity hazard: 0

**Potential Health Effects** 

Inhalation - May be harmful if inhaled. May cause respiratory irritation. Skin - May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.

Section 3.	Composition/Info	ormation on	Ingredients
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**Substances** 

Formula  $C_7H_{15}Cl_2N_2O_2P \cdot H_2O$  Formula Wt. 279.10 CAS No. 6055-19-2 EC No. 200-015-4

#### **Section 4. First Aid Measues**

General advice

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

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. Take victim immediately to hospital. 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.

### Section 5 . Firefighting Measures

**Flash Point** 

Not available.

**Extingushing Media** 

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

Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NOx), oxides of phosphorus, hydrogen chloride gas.

### Section 6. Accidental Release Measures

**Personal Precautions** 

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions** 

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

Methods and materials for containment and cleanup

Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Storage Conditions** 

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: +4°C.

Hazardous Decomposition Products

Not available.

Other Remarks

Not available.

### Section 8. Exposure Controls/Personal Protection

## Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the

product.
PERSONAL PROTECTION

Exe/face protection: Face shield and safety glasses. 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 bandle.

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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).

### Section 9. Physical and Chemical Properties

Solid. White crystalline powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility 41° - 45°C Not available. **Melting Point Density** Soluble in water. Slightly soluble in ethanol. Not available. Solubility pН Not available. Not available. Ignition Flash Point temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Soluble in water. Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

### Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Keep away from strong oxidizing agents, strong bases and strong acids.

**Materials To Avoid** 

Hazardous Not available. Decomposition **Products** 

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat - 94mg/kg Remarks: Behavioral Ataxia. Kidney, ureter, bladder: Urine volume

increased. Blood: Hemorrhage.

Skin Not available. corrosion/irritation

Serious eye Not available.

damage/irritation

Dermal LD50 Not available.

Inhalation LC50 Not available.

Respiratory or Not available.

skin sensitization

Other information on Not available. acute toxicity

Germ cell mutagenicity May alter genetic material.

Reproductive Toxicity May cause congenital malformation in the fetus. No data available.

Aspiration Hazard Not available.

Specific organ toxicity Not available. single exposure (GHS)

Synergistic effects Not available.

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: RP6157750

Teratogenicity Not available.

Signs and symptoms Stomach - Irregularities - Based on human of exposure evidence.

Potential Inhalation - May be harmful if inhaled. May cause respiratory irritation.

Health Effects Skin - May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.
Ingestion - Acute toxicity. Toxic if swallowed.
Carcinogenicity: May cause cancer.

Carcinogenicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans (Cyclophosphamide monohydrate).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

ptential carcinogen by ACGIH. NTP: Known to be human carcinogen (Cyclophosphamide monohydrate).

OSHAA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

Bioaccumulative potential Not available.

### Section 13. Disposal Considerations

### Waste Disposal

Dispose of material according to all federal, state and local regulations.

Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused

product.

### **Section 14. Transport Information**

DOT (US) UN number: 3464 Class: 6.1 Packing group: III

Proper shipping name: Organophosphorus compound, solid, toxic, n.o.s. (Cyclophosphamide monohydrate) Reportable quantity (RQ): 10 lbs., Marine pollutant: No, Poison inhalation hazard: No

UN number: 3464 Class: 6.1 Packing group: III

Proper shipping name: Organophosphorus compound, solid, toxic, n.o.s. (Cyclophosphamide monohydrate)

IMDG UN number: 3464 Class: 6.1

UN number: 3464 Class: 6.1 Packing group: III EMS-NO: F-A, S-A Proper shipping name: ORGANOPHOSPHORUS COMPOUND, SOLID, TOXIC, N.O.S. (Cyclophosphamide

monohydrate), Marine pollutant: No

**Further Information** 

### Section 15. Regulatory Information

Reach No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later

registration deadline.

SARA 302 Components SARA 302: 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 Components Acute health hazard, chronic health hazard.

**To Know Components** 

Massachusetts Right Cyclophosphamide monohydrate CAS #: 6055-19-2 Revision date: 1993-04-24

**To Know Components** 

Pennsylvania Right Cyclophosphamide monohydrate CAS #: 6055-19-2 Revision date: 1993-04-24

**To Know Components** 

New Jersey Right Cyclophosphamide monohydrate CAS #: 6055-19-2 Revision date: 1993-04-24

California Prop 65
Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Cyclophosphamide monohydrate CAS No. 6055-19-2 Revision date: 1992-11-09
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Cyclophosphamide monohydrate CAS No. 6055-19-2 Revision date: 1992-11-09

### Section 16. Other Information

### Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

**Updated** 11/13/2018

For emergencies in the USA, call CHEMTREC 800-424-9300