



Section 1. Product and Company Identification

Product Name	Chloroquine phosphate
Product ID	C2950
Chemical Name (Synonyms)	Chloroquine diphosphate; Arechin; Avloclor; Malaquin; Tresochin
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 Not a hazardous substance or mixture.

GHS Label elements including precautionary statements

Pictogram

Signal word

Hazard and precautionary statements	Hazard statement Not a hazardous substance or mixture.
	Precautionary statement Not a hazardous substance or mixture.

HMIS Classification Health hazard: 1
Chronic health hazard: *
Flammability: 0
Physical hazard: 0

NFPA Rating Health hazard: 1
Fire hazard: 0
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 permanent eye injury. May cause eye irritation.

Ingestion - Harmful if swallowed.

Section 3. Composition/Information on Ingredients

Substances

Formula $C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$
CAS No. 50-63-5

Formula Wt. 515.87
EC No. 200-055-2

Section 4. First Aid Measures

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. 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.

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

Firefighting Procedures Wear self-contained breathing apparatus for firefighting and protective clothing if necessary.

Unusual Fire Hazards Carbon oxides, nitrogen oxides (NOx), oxides of phosphorus, and hydrogen chloride gas.

Section 6. Accidental Release Measures

Personal Precautions User personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions Do not let product enter drains.

Methods and materials for containment and cleanup Avoid raising dust. Sweep up and use 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 Store in a dry, well-ventilated place in a tightly closed container.
Recommended storage temperature: Ambient

Hazardous Decomposition Products Carbon oxides, nitrogen oxides, hydrogen chloride gas and phosphorous oxides.

Other Remarks Storage class (TRGS 510): Non Combustible Solids.

Section 8. Exposure Controls/Personal Protection

Personal protective equipment EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values.
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PERSONAL PROTECTION

Eye/face protection: Safety glasses and with side-shields conforming to EN 166. 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. Full and splash contact: Material: Nitrile rubber, minimum layer thickness: 0.11 mm, Break through time: 480 min. Materials tested: Dermatrill® (KCL 740 / Aldrich Z677272, size for Size M).

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: 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).

Section 9. Physical and Chemical Properties

Physical State	Solid.	Color	White or almost white crystalline powder.
Boiling Point	Not available.	Volatility	Not available.
Melting Point	193°C -195°C & 215°C -218°C	Density	Not available.
Solubility	Soluble in water.	pH	Not available.
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Soluble in water.	Odor	Not available.
Partition coefficient: n-octanol/water	Not available.	Odor Threshold	Not available.
Relative vapor density	Not available.	Evaporation rate	Not available.

Section 10. Stability and Reactivity

Stability	Not available.
Materials To Avoid	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides, nitrogen oxides, hydrogen chloride gas and phosphorous oxides.

Possibility of hazardous reactions Not available.

Conditions to avoid Not available.

Section 11. Toxicological Information

Oral LD50 Rat - 623 mg/kg

Skin corrosion/irritation Not available.

Inhalation LC50 Not available.

Serious eye damage/irritation Not available.

Dermal LD50 Not available.

Respiratory or skin sensitization Not available.

Other information on acute toxicity Not available.

Germ cell mutagenicity Rat, liver, sister chromatid exchange.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.

Synergistic effects Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information RTECS: VB2450000
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Teratogenicity Not available.

Signs and symptoms of exposure Liver, irregularities, based on human evidence

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 permanent eye injury. May cause eye irritation.
Ingestion - Harmful if swallowed.

Carcinogenicity

Section 12. Ecological Information

Toxicity Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 49.52 mg/l - 24 h.

Mobility in soil Not available.

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

conducted.

Persistence and degradability Not available.

Other adverse effects 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 to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

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 Components Acute health hazard, chronic health hazard.

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

Pennsylvania Right To Know Components Chloroquine phosphate CAS #: 50-63-5 Revision Date: 2009-07-17

New Jersey Right To Know Components Chloroquine phosphate CAS #: 50-63-5 Revision Date: 2009-07-17

California Prop 65 Components This product does not contain any chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 6/11/2020

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