

# Safety Data Sheet

#### Section 1. Product and Company Identification

Product Name R-(+)-Warfarin Sodium >99%ee

Product ID W0275

**Chemical Name** (Synonyms)

LKT Laboratories, Inc

545 Phalen Blvd. **Supplier** 

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 1) H300

Reproductive toxicity (Category 1A) H360 Acute aquatic toxicity (Category 3) H402 Chronic aquatic toxicity (Category 3) H412

#### GHS Label elements including precautionary statements

**Pictogram** 





Signal word

Danger

### Hazard and precautionary statements

#### **Hazard statements**

H300 - Fatal if swallowed.

H360 - May damage fertility or the unborn child. H412 - Harmful to aquatic life with long-lasting effects.

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.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

P405 - Store locked up.

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

**HMIS Classification** Health hazard: 4

Chronic health hazard: \* Flammability: 0 Physical hazard: 0

**NFPA Rating** 

Health hazard: 3 Fire hazard: 0 Reactivity hazard: 0

**Potential Health Effects** 

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

Skin - Harmful in contact with skin. May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.

	Ingestion - Acute toxicity. Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure if swallowed.
Section 3. Composition/Information on Ingredients	
Substances	Ingredient: Title Compound Percent: 100
Formula	C <sub>19</sub> H <sub>15</sub> NaO <sub>4</sub> <b>Formula Wt.</b> 330.31
CAS No.	EC No.
Section 4. First Aid Measues	
	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
General advice	
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 for firefighting if necessary.
Unusual Fire Hazards	Not available.
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.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleanup	
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 Hazardous decomposition products formed under fire conditions. - Carbon oxides.

**Other Remarks** 

#### 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

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

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 to off white powder **Physical State** Color Not available. Not available. **Boiling Point** Volatility Not available. Not available. **Melting Point Density** Water to 100mM 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 Not available. 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** 

Strong oxidizing agents, strong acids and strong bases.

Materials To Avoid

Hazardous Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Decomposition
Products

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

#### Section 11. Toxicological Information

Oral LD50 Not available. Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity Not available. Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available. Additional Information Not available. repeated exposure (GHS)

> Signs and symptoms Not available. Teratogenicity Not available. of exposure

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

Skin - Harmful in contact with skin. May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.
Ingestion - Acute toxicity. Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure if swallowed.

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: 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

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

Waste Disposal Offer material to a licensed, professional waste disposal company to dispose of as unused product.

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

**DOT (US)** UN number: 2811 Class: 6.1 Packing Group: I Proper shipping name: Toxic solid, organic, n.o.s. ((R)-(+)-Warfarin sodium)

IATA UN number: 2811 Class: 6.1 Packing Group: I Proper shipping name: Toxic solid, organic, n.o.s. (Warfarin)

IMDG UN number: 2811 Class: 6.1 Packing Group: I EMS #: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Warfarin)

**Further Information** 

#### **Section 15. Regulatory Information**

Reach No.

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 SARA 313: 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 No SARA hazards.

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

Pennsylvania Right R-(+)-Warfarin Sodium >99%ee To Know Components

New Jersey Right R-(+)-Warfarin Sodium >99%ee To Know Components

**California Prop 65** This product does not contain any chemicals known to the 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** 9/4/2018

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