

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Silybin Product ID S3343

Chemical Name (Synonyms)

Silibinin; Silybum substance E6; Silymarin I

Supplier

LKT Laboratories, Inc 545 Phalen Blvd.

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label elements including precautionary statements

Pictogram



Warning

Signal word

Hazard statements

Hazard and precautionary statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary statements

P261 - Avoid breathing dust, fumes, gas, mist vapors and spray.

P264 - Wash skin thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, eye protection and face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
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.
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.

P321 - Specific treatment (see supplemental first aid instructions on this label). P332 + P313 - If skin irritation occurs: Get medical advice and/or attention.

P337 + P313 - If eye irritations persists: Get medical advice and/or attention.

P362 - Take off contaminated clothing and wash before reuse.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

HMIS Classification Health hazard: 2

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

NFPA Rating

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

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes serious eye irritation.

Substances

Formula C₂₅H₂₂O₁₀ Formula Wt. 482.44 CAS No. 22888-70-6 EC No. 245-302-5

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 plenty of water for at least 15 minutes and seek medical attention immediately.

Skin Contact

Wash with soap and water for 15 minutes and 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 firefighting if necessary.

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Carbon oxides.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Do not let product enter drains.

Methods and materials for containment and cleanup

Do not create 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. Provide appropriate exhaust ventilation at places where dust if formed.

Storage Conditions

Store in a cool, dry and well-ventilated place in a tightly closed container. Recommended storage temperature: -20°C.

Hazardous Decomposition Products

Not available.

Other Remarks

None.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

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

PERSONAL PROTECTION

PERSONAL PROTECTION
Eye/face protection: Safety glasses 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: Safety glasses with side-shields conforming to EN166. 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, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).
Body protection: You should wear impervious clothing. 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 ČEN (EU).

Section 9. Physical and Chemical Properties

Solid. Yellowish powder. **Physical State** Color Not available. Not available **Boiling Point** Volatility Not available. 167°C or 180°C(dec.) **Melting Point Density** Soluble in acetone, ethyl acetate, methanol or Not available. ethanol. Practically insoluble in water. pН Solubility 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 Practically insoluble 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 heat and strong oxidizing agents. **Materials To Avoid**

Hazardous Not available. **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 Inhalation - May cause respiratory irritation. Synergistic effects Not available.

single exposure (GHS)

repeated exposure (GHS)

Specific organ toxicity Not available. Additional Information RTECS: DJ2981770

To the best of our knowledge, the chemical,

physical and toxicological properties have not

been thoroughly investigated.

Signs and symptoms Stomach - Irregularities - Based on Human **of exposure** Evidence. Teratogenicity Not available.

Mobility in soil Not available.

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

Health Effects Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes serious eye irritation.
Ingestion: May be harmful 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.

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.

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.

PBT and vPvB PBT/vPvB assessment not available as assessment chemical safety assessment not required / no 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 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 and chronic health hazard

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

Pennsylvania Right Silybin CAS #: 22888-70-6 Revision Date: To Know Components

New Jersey Right Silybin CAS #: 22888-70-6 Revision Date: To Know Components

California Prop 65 This product does not contain any chemicals 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