

Safety Data Sheet

Section 1. Product and Company Identification

Product Name R,S-Sulforaphane

Product ID S8044

Chemical Name

D,L-Sulforaphane

(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

Not a hazardous substance or mixture. GHS Classification

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: 0

Flammability: 0 Physical hazard: 0

Health hazard: 0 **NFPA Rating** Fire hazard: 0

Reactivity hazard: 0

Inhalation: May be harmful if inhaled. **Potential Health Effects**

Skin: May be harmful if absorbed through skin.

Eyes: May cause eye irritation.

Section 3. Composition/Information on Ingredients

Substances

Formula C₆H₁₁NOS₂ Formula Wt. 177.29

CAS No. 4478-93-7 **EC No.**

Section 4. First Aid Measues

General advice

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water.

Inhalation

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

Ingestion

Never give anything by mouth to an unconscious person. Rise mouth with water.

Section 5 . Firefighting Measures

Not available. Flash Point

FIASII POIIIL

Water spray, alcohol-resistant foam, dry chemical powder, or carbon dioxide.

Extingushing Media

Wear self-contained breathing apparatus and for firefighting if necessary.

Firefighting Procedures

Carbon oxides, nitrogen oxides (NOx), and sulfur oxides.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions Avoid breathing vapors, mist, or gas.

Environmental Precautions Do not let product enter drains.

Methods and materials for containment and cleanup

Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Normal measures for preventive fire protection.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened, must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -20°C

Hazardous Decomposition Products

Not available.

Other Remarks

None.

Section 8. Exposure Controls/Personal Protection

Section 9. Physical and Chemical Properties

Personal protective EXPOSURE CONTROLS

Liquid.

Physical State

Boiling Point

Melting Point

Solubility

Flash Point

Lower explosion limit

Upper explosion limit

Water solubility

n-octanol/water

Partition coefficient: Not available.

Relative vapor density Not available.

equipment Contains no substances with occupational exposure limit values. General industrial hygiene practice.

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 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

Body Protection: 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: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Color

Slightly yellowish liquid.

125°C-135°C Not available. Volatility Not available. Not available. **Density** Soluble in ethanol, DMSO 20mg/mL, Not available. methanol, or ethyl acetate. Also soluble in pН Not available. Not available. Ignition temperature Not available. Not available. **Autoignition** temperature Not available. Not available. Vapor

pressure

Odor

Odor

Threshold

Evaporation rate

Not available.

Not available.

Not available.

Section 10. Stability and Reactivity

Stable under recommended storage conditions for 2 years. Avoid prolonged contact with moisture and freeze thaw Stability

Strong acids, strong bases.

Soluble in water.

Materials To Avoid

Hazardous Not available.

Decomposition Products

Possibility of Not available. hazardous reactions

Keep away from sunlight and heat.

Conditions to avoid

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)

repeated exposure (GHS)

Specific organ toxicity Not available.

Additional Information RTECS: Not available.

To the best of our knowledge, the chemical, physical and toxicological properties have not

been thoroughly investigated.

Teratogenicity Not available. Signs and symptoms Not available.

of exposure

Potential Inhalation: May be harmful if inhaled.

Health Effects Skin: May be harmful if absorbed through skin. Eyes: May cause 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.

Mobility in soil Not available.

Persistence and degradability Not available.

Other adverse effects Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

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

Waste Disposal Contact a licensed professional waste disposal service to dispose of this material. 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 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,S-Sulforaphane CAS #: 4478-93-7 Revision Date: To Know Components

New Jersey Right R,S-Sulforaphane CAS #: 4478-93-7 Revision Date: 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 1/1/2019

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