

MSDS

Material Safety Data Sheet

Date prepared: May 28, 2012

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Sulfadoxin
CAS Reg. Number: 2447-57-6
Catalog Number: 1ST4006
Manufacturer's Name: A Chemtek, Inc.
100 Barber Avenue
Worcester, MA 01606, USA
Telephone Number: 508-471-4121
Fax Number: 508-845-9201
For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Classification of the substance or mixture


According to Regulation (EC) No 1272/2008

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

According to EU Directives 67/548/EEC as amended.

Irritating to eyes, respiratory system and skin.

Label elements

Pictogram	
Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none
According to European Directive 67/548/EEC as amended.	
Hazard symbol(s)	
Xi	Irritant
R-phrases(s)	
R36/37/38	Irritating to eyes, respiratory system and skin.
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Other hazards	none.

Section 3 - Composition/Information on Ingredients

Formula: $C_{12}H_{14}N_4O_4S$
Molecular Weight: 310.33g/mol
CAS-No. 2447-57-6

Section 4 - First Aid Measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

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Section 5 - Fire-Fighting Measures

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides

Section 6 - Accidental Release Measures

Personal precautions Avoid dust formation.

Environmental precautions Do not let product enter drains.

Methods for cleaning up 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 is formed. Normal measures for preventive fire protection.

Storage Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 - 8 °C

Section 8 - Exposure Controls/Personal Protection

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

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 dust mask type N95 (US) or type P1 (EN 143) 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

Appearance:

Form	Solid
Colour	colourless

Safety data

pH:	not available
Melting point:	197°C
Boiling point:	not available
Flash point:	not available
Ignition temperature:	not available
Lower explosion limit:	not available
Upper explosion limit:	not available
Water solubility:	not available

Other safety information not available

Section 10 - Stability and Reactivity

Storage stability Stable under recommended storage conditions

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Materials to avoid Strong oxidizing agents
Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

Section 11 - Toxicological Information

Acute toxicity

LD50 Oral – mouse - 5.200 mg/kg

Irritation and corrosion: not available

Sensitization: not available

Respiratory or skin sensitization: not available

Chronic exposure

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.

Potential health effects

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

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Section 12 - Ecological Information

Toxicity not available

Elimination information (persistence and degradability)

not available

Ecotoxicity effects: not available

Further information on ecology: not available

Section 13 - Disposal Considerations

Product Observe all federal, state, and local environmental regulations.

Contaminated packaging Dispose of as unused product.

Section 14- Transport Information

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.