SAFETY DATA SHEET

Version 4.6 Revision Date 05/27/2016 Print Date 11/06/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sterigmatocystin

Product Number : S3255 Brand : Sigma

CAS-No. : 10048-13-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301 Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H351 Suspected of causing cancer.

Precautionary statement(s)

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.
P281 Use personal protective equipment as required.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P321 Specific treatment (see supplemental first aid instructions on this label).

Sigma - S3255 Page 1 of 8

P330 Rinse mouth. P405 Store locked up.

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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 3a,12c-Dihydro-8-hydroxy-6-methoxy-7*H*-furol[3',2':4,5]furo[2,3-

c]xanthen-7-one

Formula : C₁₈H₁₂O₆

Molecular weight : 324.28 g/mol
CAS-No. : 10048-13-2
EC-No. : 233-158-6

Hazardous components

Component	Classification	Concentration
(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one		
	Acute Tox. 3; Carc. 2; H301	l, <= 100 %
	H351	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

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. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Sigma - S3255 Page 2 of 8

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C

Light sensitive. Store under inert gas. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses 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 contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

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)

Sigma - S3255 Page 3 of 8

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Information on basic physical and chemical pr			
а)	Appearance	Form: powder Colour: yellow
b)	Odour	No data available
С)	Odour Threshold	No data available
d)	pH	No data available
е)	Melting point/freezing point	No data available
f))	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i))	Flammability (solid, gas)	No data available
j))	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I))	Vapour density	No data available
n	n)	Relative density	No data available
n)	Water solubility	No data available
0)	Partition coefficient: n-octanol/water	No data available
р)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r))	Viscosity	No data available
s)	Explosive properties	No data available
t))	Oxidizing properties	No data available

9.2 Other safety information

No data available

Sigma - S3255 Page 4 of 8

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 120 mg/kg

Remarks: Liver: Hepatitis (hepatocellular necrosis), diffuse. Liver: Fatty liver degeneration. Kidney, Ureter,

Bladder: Changes primarily in glomeruli.

Inhalation: No data available Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Histidine reversion (Ames)

Mouse

fibroblast

DNA damage

Hamster

Lungs

Mutation in mammalian somatic cells.

Human

fibroblast

Unscheduled DNA synthesis

Rat

Morphological transformation.

Carcinogenicity

Carcinogenicity - Rat - Oral

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors.

Sigma - S3255 Page 5 of 8

Carcinogenicity - Rat - Oral

Tumorigenic:Carcinogenic by RTECS criteria. Liver:Hepatitis, fibrous (cirrhosis, post-necrotic scarring). Liver:Tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans ((3aR-cis)3a,12c-Dihydro-8-hydroxy-6-

methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one)

IARC: 2B - Group 2B: Possibly carcinogenic to humans ((3aR-cis)3a,12c-Dihydro-8-hydroxy-6-

methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one)

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.

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.

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.

Reproductive toxicity

No data available

Reproductive toxicity - Maternal Effects: Oogenesis.

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: LV1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available

Sigma - S3255 Page 6 of 8

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3462 Class: 6.1 Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. ((3aR-cis)3a,12c-Dihydro-8-hydroxy-6-

methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one)

Poison Inhalation Hazard: No

IMDG

UN number: 3462 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. ((3aR-cis)3a,12c-Dihydro-8-

hydroxy-6-methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one)

IATA

UN number: 3462 Class: 6.1 Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. ((3aR-cis)3a,12c-Dihydro-8-hydroxy-6-

methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one)

15. REGULATORY INFORMATION

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 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-	10048-13-2	1993-04-24
furo[3',2':4,5]furo[2,3-c]xanthen-7-one		

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-	10048-13-2	1993-04-24
furo[3',2':4,5]furo[2,3-c]xanthen-7-one		

New Jersey Right To Know Components

	CAS-No.	Revision Date
(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-	10048-13-2	1993-04-24
furo[3',2':4,5]furo[2,3-c]xanthen-7-one		

California Prop. 65 Components

WARNING! This product contains a chemical known to the	CAS-No.	Revision Date
State of California to cause cancer.	10048-13-2	1992-11-09

(3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-

furo[3',2':4,5]furo[2,3-c]xanthen-7-one

Sigma - S3255 Page 7 of 8

WARNING! This product contains a chemical known to the State of California to cause cancer. (3aR-cis)3a,12c-Dihydro-8-hydroxy-6-methoxy-7H-furo[3',2':4,5]furo[2,3-c]xanthen-7-one

CAS-No. 10048-13-2

Revision Date 1992-11-09

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity
Carc. Carcinogenicity
H301 Toxic if swallowed.

H351 Suspected of causing cancer.

HMIS Rating

Health hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical Hazard 0

NFPA Rating

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

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 4.6 Revision Date: 05/27/2016 Print Date: 11/06/2018

Sigma - S3255 Page 8 of 8