

STAUROSPORINE SAFETY DATA SHEET

Date of Issue 2017-02-09 Revision No. A/0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Identifier Staurosporine

Product Number S070

CAS Number [62996-74-1] EC Number [613-127-7]

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

Recommended Use Research chemical, for *in vitro* use only.

Restrictions of Use Not for human or animal use

1.3 Details of the supplier of the safety data sheet

Distributor Name TOKU-E Company

Distributor Address 715 W Orchard Dr. Suite 3

Bellingham, WA 98225

Phone Number (360)734-1789 E-mail Address info@toku-e.com

Safety Data Sheet Issued by TOKU-E Company (USA)

1.4 Emergency telephone number

Emergency Phone Number (International) +1 (352) 353-3500 Emergency Phone Number (US Only) 1 (800) 535-5053

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Acute toxicity (Category 2, Oral)

(Please refer to Section 16 for regulatory Acute toxicity (Category 2, Dermal)

information) Carcinogenicity (Category 1B)

Germ cell mutagenicity (Category 1B)

Hazardous to the aquatic environment (Category 1,

Chronic)

2.2 Label elements, including precautionary statements

GHS Label Elements:



Signal Word Danger Hazard Statements

H300 Fatal if swallowed

H310 Fatal in contact with skin H340 May cause genetic defects

H350 May cause cancer

H410 Very toxic 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

P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands/skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment, see applicable response statements on this label

P330 Rinse mouth

P361+P364 Take off immediately all contaminated clothing and wash it before reuse

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/container in accordance with governmental regulation

2.3 Other hazards which do not result in classification

Hazards not otherwise classified (HNOC) by GHS No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonym(s) Staurosporine, AM 2282, M 193

Formula $C_{28}H_{26}N_4O_3$ Molecular Weight 466.5

CAS Number [62996-74-1] EC Number [613-127-7] Hazardous Ingredients Staurosporine

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General Advice Consult a doctor/physician if exposed - additional

medical care may be required. Show this Safety Data

Sheet to the medical provider.

If inhaled, move to fresh air. If not breathing, give

artificial respiration and immediately call local

emergency telephone number.

In Case of Skin Contact Wash skin thoroughly with soap and water.

In Case of Eye Contact Flush eye with water. After initial flush, remove any

contact lenses and continue flushing for at least 15

minutes.

If Swallowed Rinse mouth with water. Immediately call a doctor,

physician, or poison control center. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Specific Treatment Please see Section 2 and Section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No Data Available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical,

carbon dioxide

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products Formed under fire conditions: carbon and nitrogen

oxides, carbon monoxide

5.3 Advice for firefighters

Special Protective Equipment for

Firefighters

Wear self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General Evacuate personnel to a safe location. Use

appropriate personal protective equipment while in contact with product. Avoid dust formation. Ensure

adequate ventilation.

Personal Precautions Prevent contamination of skin, eyes and clothing with

appropriate protective equipment (Section 8). Wear

respiratory protection.

6.2 Environmental precautions

General Recover waste, if possible, and place in suitable

closed container for licensed disposal. Prevent

spillage - do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

The recommended course of action is to treat any incident that involves the spill/release of a chemical substance as if it were hazardous in nature until the appropriate personnel have been consulted. Wear personal protective equipment as necessary. If

accessible, use a spill kit. For powder spills, avoid

generating dust during cleanup.

6.4 Reference to other sections Refer to section 8 for exposure control.

Refer to section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handlingWear appropriate protective clothing/gear to prevent

contact with skin and eyes. Provide exhaust ventilation or respiratory protection in areas where

dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Protect from

humidity.

Recommended storage temperature: -20°C

Incompatibilities No Data Available

7.3 Specific end use(s) Refer to section 1.2

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Contains no substance/substances with occupational exposure limit values

OSHA Permissible Exposure Limits

No Data Available

8.2 Exposure controls

PPE: 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.

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)

PPE: Hand Protection Handle with gloves. Gloves must be inspected prior to

use. Use proper glove removal techniques to avoid

skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices, and

wash and dry hands

PPE: Eye Protection Use a 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)

PPE: Skin and Body Protection Handle with gloves. Wear protective clothing. Choose

body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a

complete body suit

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance White or lemon yellow solid

Odor No Data Available Odor Threshold No Data Available Hg No Data Available Melting Point/Freezing Point No Data Available Initial Boiling Point and Range No Data Available Flash Point No Data Available No Data Available **Evaporation rate** Flammability (solid, gas) No Data Available Upper Flammability/Explosion Limit No Data Available Lower Flammability/Explosion Limit No Data Available Vapor Pressure No Data Available Vapor Density No Data Available Relative Density No Data Available Water Solubility Poor water solubility

Solubility in Other Solvents Soluble in ethanol, methanol, DMF or DMSO

No Data Available Partition Coefficient: n-octanol/water **Auto-Ignition Temperature** No Data Available Decomposition Temperature No Data Available No Data Available Viscosity **Explosive Properties** No Data Available Oxidizing Properties No Data Available **Optical Rotation** No Data Available Absorbance (290nm, 5% in H₂O) No Data Available Water Content (Loss on Drying) No Data Available

SECTION 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 avoidNo Data Available

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition Formed under fire conditions: carbon and nitrogen

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral TDLo Human - 0.8 mg/kg

Toxic Effects Nausea

Inhalation LC₅₀ No Data Available

Dermal TDLo Mouse - 0.78 mg/kg/13 weeks

Germ Cell Mutagenicity DNA inhibition, human cells, 3nmol/L/24 hours

Cytogenetic analysis, human lymphocyte, 0.045

mg/L/24 hours

Carcinogenicity This substance has not been identified as a potential

carcinogen within the National Toxicology Program Report on Carcinogens or within the International Agency for Research on Cancer Monograph.

Reproductive Toxicity Suspected human reproductive toxicant

Specific Target Organ Toxicity: Single No Data Available

Exposure (GHS)

Specific Target Organ Toxicity: Repeated No Data Available

Exposure (GHS)

Aspiration Hazard No Data Available

Potential Heath Effects See Section 2, Hazard(s) Identification

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical,

and toxicological properties of this material have not

been thoroughly investigated

Synergistic Effects

No Data Available

Additional Information

No Data Available

SECTION 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 SoilNo Data Available

12.5 PBT and vPvB assessmentNo Data Available

12.6 Other adverse effectsNo Data Available

In the absence of complete ecological information, treat product as environmentally hazardous. Use proper storage, handling, and disposal to prevent unintentional release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose unused/spoiled product in accordance with local and federal regulations.

Sewering is not an acceptable form of waste disposal.

Product Dispose of product through a licensed disposal

company.

Contaminated Packaging Dispose of as unused product.

SECTION 14: TRANSPORTATION INFORMATION

DOT (US) UN Number: UN3462, Class 6.1, Packing group II

Proper shipping name: Toxins, extracted from living

sources, solid, n.o.s. (Straurosporine)

Marine pollutant: Yes

IMDG UN Number: UN3462, Class 6.1, Packing group II

Proper shipping name: TOXINS, EXTRACTED FROM

LIVING SOURCES, SOLID, N.O.S.

(STRAUROSPORINE) EMS-no. F-A, S-A Marine pollutant: Yes

IATA UN Number: UN3462, Class 6.1, Packing group II

Proper shipping name: Toxins, extracted from living

sources, solid, n.o.s. (Straurosporine)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 2/3: Hazards identification/labelling in accordance with OSHA 29 CFR 1910.1200 Section 2/3: Hazards identification/labelling in accordance with Regulation (EC) 1272/2008 SDS in accordance with Regulation (EC) 1907/2006

SARA 302 Components

No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 Components

No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section

311/312

Massachusetts Right to Know No components are subject to the Massachusetts

Right to Know Act

Pennsylvania Right to Know No components are subject to the Pennsylvania Right

to Know Act

New Jersey Right to Know No components are subject to the New Jersey Right

to Know Act

California Prop. 65 Components No

This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm

EU Information SDS in accordance with Regulation (EC) 1907/2006

Identification, classification and labelling in accordance with Regulation (EC) 1272/2008

EC Number [613-127-7] CAS Number [62996-74-1] Name: Staurosporine

Envisaged Registration Deadline: 31/05/2018

15.2 Chemical safety assessment

EU Information For this product a chemical safety assessment was

not carried out

16. OTHER INFORMATION

Revision Date: 2017-02-09

This safety data sheet represents TOKU-E Company's current understanding of the hazards associated with this product. The stated hazard information is based on existing experimental data and is not guaranteed to be all-inclusive. TOKU-E Company strives to maintain current and comprehensive safety information but recognizes that this safety data sheet may require revision as new information becomes available. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of this product.