SECTION 1. Identification

Product identifier

Product No  9953
Product name  Staurosporine

Recommended use of the chemical and restrictions on use

Identified uses  This product is intended for research purposes only.
Manufacturer, importer, supplier

Manufacturer address  Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400
Website  www.cellsignal.com
Email address  support@cellsignal.com
Emergency telephone number  In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Germ cell mutagenicity</th>
<th>Category 1B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Signal Word  Danger.

Hazard statement(s)
May cause genetic defects. May cause cancer.
Precautionary Statement(s)
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. 
IF exposed or concerned: Get medical advice/attention. 
Store locked up. 
Dispose of contents/container to an approved waste disposal plant.

Supplementary Hazard Information

No information available.

Hazards not otherwise classified (HNOC)
Not applicable.

Unknown Acute Toxicity 100% of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,13-Epoxy-1H,9H-diindolo(1,2,3-gh:3',2',1'-lm)pyrrolo(3,4-j)(1,7)-benzodiazonin-1-one, 2,3,10,11,12,13-hexahydro-10-methoxy-9-methyl-11-1-(methylamino)-, (9S-(9alpha,10beta,11beta,13alpha)-</td>
<td>62996-74-1</td>
<td>100</td>
</tr>
</tbody>
</table>

SECTION 4. First-aid measures

**Eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**
Wash skin with soap and water.

**Inhalation**
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**
No information available.

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

**Advice for emergency responders**

**General advice**
For further assistance, contact your local Poison Control Center.

**Protection of first-aiders**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5. Fire-fighting measures

**Extinguishing media**

**Suitable Extinguishing Media**

**Unsuitable Extinguishing Media**
None.

**Specific hazards arising from the chemical**
No information available.

**Explosion Data**

- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<table>
<thead>
<tr>
<th>SECTION 6. Accidental release measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal precautions, protective equipment and emergency procedures</td>
</tr>
<tr>
<td>For non-emergency personnel</td>
</tr>
<tr>
<td>Other information</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.</td>
</tr>
</tbody>
</table>

**Methods and material for containment and cleaning up**

- Prevent further leakage or spillage if safe to do so.
- Pick up and transfer to properly labeled containers.

<table>
<thead>
<tr>
<th>SECTION 7. Handling and storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions for safe handling</td>
</tr>
<tr>
<td>Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation in confined areas. Do not breathe vapors or spray mist. Ensure adequate ventilation.</td>
</tr>
</tbody>
</table>

**Conditions for safe storage, including any incompatibilities**

- Keep containers tightly closed in a dry, cool and well-ventilated place.
- No information available.
- Strong oxidizing agents.

<table>
<thead>
<tr>
<th>SECTION 8. Exposure controls/personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control parameters</td>
</tr>
<tr>
<td>This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

Showers, eyewash stations, and ventilation systems.

**Individual protection measures, such as personal protective equipment**

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

- Safety glasses with side-shields
**Skin and body protection**

Wear protective gloves/clothing. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Respiratory protection**

Handle in accordance with good industrial hygiene and safety practice.

**Hygiene measures**

**SECTION 9. Physical and chemical properties**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Off-white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other information**

Softening point | No information available
Molecular Weight | No information available
VOC content | No information available
Liquid Density | No information available
Bulk density | No information available

**SECTION 10. Stability and reactivity**

**Reactivity**

No information available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

<table>
<thead>
<tr>
<th>Hazardous reactions</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>None under normal processing.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous polymerization</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>None under normal processing.</td>
<td></td>
</tr>
</tbody>
</table>
Extremes of temperature and direct sunlight.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon oxides (COx). Nitrogen oxides (NOx).

**SECTION 11. Toxicological information**

Information on likely routes of exposure

- **Inhalation**: May cause irritation of respiratory tract.
- **Eye contact**: Avoid contact with eyes. May cause irritation.
- **Skin contact**: Avoid contact with skin.
- **Ingestion**: May be harmful if swallowed.

Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

**Unknown Acute Toxicity**

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Symptoms**: No information available.
- **Sensitization**: No information available.
- **Mutagenic effects**: May cause genetic defects.
- **Carcinogenicity**: May cause cancer.
- **Reproductive toxicity**: No information available.
- **STOT - single exposure**: No information available.
- **STOT - repeated exposure**: No information available.
- **Neurological effects**: No information available.
- **Aspiration Hazard**: No information available.

**SECTION 12. Ecological information**

**Ecotoxicity**

0% of the mixture consists of components of unknown hazards to the aquatic environment.

- **Persistence and degradability**: No information available.
- **Bioaccumulation**: No information available.
- **Mobility**: No information available.

**Other adverse effects**

No information available.

**SECTION 13. Disposal considerations**

**Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.
Disposal considerations
Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14. Transport information
This material is not subject to regulation as a hazardous material for shipping.

SECTION 15. Regulatory information

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification
This product does not meet the criteria for classification under the Hazardous Products Act.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td></td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td></td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. FIFRA Label Information
This product does not contain any substances regulated as pesticides.

US Commerce Department - Export Administration Regulations Information
This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).
U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

SECTION 16. Other information

Issuing Date: 2019-02-08

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet