

In Compliance with the Globally Harmonized System (GHS)

Section 1: Identification of the Substance and the Company / Undertaking

1.1 – Product identifier

Product name(s): SepaFlash™ TLC Plates
 Product number(s): All product numbers starting by " TL- "
 Brand: Santai Science Inc.
 EC number: 231-545-4
 CAS number: 7631-86-9
 Synonyms: Thin layer chromatography plate

1.2 – Relevant identified uses of the substance

Identified uses: Chromatography
 Uses advise against: None
 Reason why uses advised against: Not applicable

1.3 – Details of the supplier of the safety data sheet

Company: Santai Science Inc.
 214 Brunswick Blvd
 Pointe-Claire, Quebec
 H9R 1A6, Canada

Telephone: +1 514 505 1378

1.4 – Emergency telephone +1 514 505 1378

Section 2: Hazard Identification

2.1 – Classification of the substance or mixture

Acute toxicity, inhalation: Category 4, harmful if inhaled (H332)
 Eye irritation: Category 2A, causes serious eye irritation (H319)
 Specific target organ toxicity: Category 3, may causes respiratory irritation (H335)

2.2 – GHS label elements, including precautionary statements

Pictogram(s):



Signal word(s): Warning

Hazard statement(s): Not a hazardous substance or mixture.

Precautionary statement(s):

- Prevention:

- P261 – Avoid breathing mist/vapors/spray.
- P264 – Wash face, hands, and exposed skin thoroughly after handling.
- P271 – Use in a well-ventilated area.
- P280 – Use personal protective equipment as required.
- P305+P351+P338 – If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340+P321 – If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.
- P337+P313 – If eye irritation persists, get medical attention.
- P403+P233 – Store in a well-ventilated place. Keep closed.
- P501 – Dispose of contents/container at an approved waste disposal plant.

- Response:

- Storage:

- Disposal:

2.3 – Hazards not otherwise classified (HNOC)

None

Section 3: Composition / Information on Ingredients

Substances

Component	CAS Number	EC Number	Classification	Concentration
Silica, amorphous	7631-86-9	231-545-4	-	≤ 97 %

Synonyms: Silica gel on TLC plate

Composition notes: Substrates coated with amorphous silica and a proprietary binder, with or without a fluorescent indicator.

Section 4: First Aid Measures

4.1 – Description of first aid measures

After inhalation:

After skin contact:

After eye contact:

After ingestion:

General advice:

- Move to fresh air, give artificial respiration if breathing has stopped.
- Wash with soap and water.
- Flush with water for at least 30 minutes. If eye irritation persists get medical advice/attention.
- Rinse mouth with water, do not induce vomiting, seek medical attention.
- Material has a drying effect, prolonged contact may cause irritation. If symptoms persist, consult a physician.

4.2 – Most important symptoms and effects, acute / delayed

No available information

4.3 – Indication of immediate attention / special treatment

Notes to physician. Treat symptomatically.

4.4 – General advice

Material has a drying effect, prolonged contact may cause irritation. If symptoms persist, consult a physician.

Section 5: Fire Fighting Measures

5.1 – Suitable extinguishing media

Water, foam, carbon dioxide, dry chemical.

5.2 – Hazardous combustion products

Sulfur oxides, calcium oxide, potential unknown decomposition products.

5.3 – Protective equipment

Wear personal protective equipment, wear self-contained breathing apparatus if necessary.

5.4 – Additional information

Dispose of fire debris in accordance with official regulations.

Section 6: Accidental Release Measures

6.1 – Personal precautions

Avoid dust formation, wear protective clothing, ensure adequate ventilation.

6.2 – Environmental precautions

Damp down dust with water, contain contaminated water and dispose.

6.3 – Methods and materials for containment and clean-up

Vacuuming or wet sweep to avoid dust dispersal.

6.4 – Reference for other sections

No dangerous substances are released.

Section 7: Handling and Storage

- | | |
|--|--|
| 7.1 – Precautions for safe handling | Prevent formation of dust and use in a well-ventilated area. Wash hands after handling. See Section 2.2 for more details. |
| 7.2 – Conditions for safe storage | Keep the packaging tightly sealed and store in a dry environment. This product is hygroscopic and must be protected from moisture. |
| 7.3 – Specific end use(s) | No additional specific uses are identified beyond those listed in Section 1.2. |

Section 8: Exposure Controls / Personal Protection

8.1 – Control parameters

Exposure guidelines: This product does not contain hazardous materials with occupational exposure limits set by regional regulatory authorities.

- | | |
|------------------------|---|
| Component: | • Silica, amorphous CAS Number: 7631-86-9 |
| IDLH: | • Short term value: 3,000 mg/m ³ |
| PEL: OSHA: | • Long term value: 80 mg/m ³ |
| REL: NIOSH TWA: | • Long term value: 6 mg/m ³ |
| TLV: ACGIH TWA: | • Long term value: 10 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction) |

8.2 – Exposure controls

- | | |
|--------------------------------|--|
| Engineering controls: | • Remove contaminated clothing and wash thoroughly. Clean hands thoroughly after handling the substance. |
| Eye / face protection: | • Use eye protection equipment that meets relevant government standards, such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for general handling. In environments where eye exposure or airborne particles are likely, tightly sealed goggles should be used. Ensure that an eye wash station is readily accessible. |
| Skin protection: | • Wear appropriate protective gloves when handling this product. Inspect gloves for damage before use and remove them properly to avoid skin contact with the outer surface. Dispose of used gloves in compliance with applicable regulations and best laboratory practices. Minimize skin exposure by wearing dust-resistant clothing. Contaminated clothing should be washed, and protective equipment cleaned before reuse. After handling, wash skin thoroughly with soap and water. |
| Respiratory protection: | • Comply with OSHA respiratory regulations outlined in 29 CFR 1910.134 or European Standard EN 149. Minimize dust exposure through engineering and administrative controls. If necessary, use NIOSH/MSHA-approved particulate respirators, following the limitations specified by NIOSH/MSHA or the manufacturer. For low-level dust exposure, an N95 (US) or P1 (EN 143) dust mask is recommended. |
| Environmental controls: | • No specific environmental precautions are necessary. |

Section 9: Physical and Chemical Properties

a. Appearance:	Form: solid. Color: white
b. Odor:	Odorless
c. Odor threshold:	No data available
d. pH:	4.0 – 9.0
e. Melting point:	> 1,700°C
f. Boiling point:	> 1,700°C
g. Flash point:	No data available
h. Evaporation rate:	No data available
i. Flammability:	Not flammable
j. Upper/lower flammability or explosive limits:	No data available
k. Vapor pressure:	No data available
l. Vapor density:	No data available
m. Relative density:	200 – 600 kg/m ³
n. Water solubility:	Insoluble
o. Partition coefficient (n-octanol/water):	Not applicable for inorganic substances
p. Autoignition temperature:	Not self-igniting
q. Decomposition temperature:	No data available
r. Viscosity:	No data available
s. Explosive properties:	Not explosive
t. Oxidizing properties:	Not oxidizing

Section 10: Stability and Reactivity

10.1 – Reactivity	No data available
10.2 – Chemical stability	Stable in designed use
10.3 – Hazardous reactions	None known
10.4 – Conditions to avoid	No data available
10.5 – Incompatible materials	Strong oxidizing agents, strong acids, hydrogen fluoride
10.6 – Hazardous decomposition products	No data available

Section 11: Toxicological Information

11.1 – Information on toxicological effects

Acute toxicity:	<ul style="list-style-type: none"> LD50/LC0 - oral, dermal, inhalative: >5,000 mg/kg (rat OECD 401), >6,000 mg/kg (rabbit), >140-2,000 mg/m³/4h (rat OECD 403)
Primary irritant effect (skin, eyes):	<ul style="list-style-type: none"> 0 (rabbit OECD 404), 0 (rabbit OECD 405)
Sensitization (respiratory, skin):	<ul style="list-style-type: none"> No data available
Carcinogenic categories:	<ul style="list-style-type: none"> This product or one of its components has not been classified as carcinogenic according to evaluations by IARC, ACGIH, NTP, or EPA.
Repeat dose toxicity:	<ul style="list-style-type: none"> No data available
Mutagenicity:	<ul style="list-style-type: none"> >5 mg/plate (in-vitro OECD 471), negative with and without metabolic activation (ECHA 2012)
Reproductive toxicity (oral):	<ul style="list-style-type: none"> 1,350 mg/kg bw/day (rat OECD 414)
Specific target organ toxicity:	<ul style="list-style-type: none"> No data available

11.2 – Additional information

Based on available information, the chemical, physical, and toxicological properties of this substance have not been comprehensively studied or characterized.

Section 12: Ecological Information

12.1 – Toxicity

- | | |
|---------------------------|--|
| • Toxicity to fish: | • LC0 (96 h static) 10,000 mg/l (zebra fish OECD 203) |
| • Toxicity to water flea: | • EC50 (24 h) >1,000 mg/l (Daphnia magna OECD 202) |
| • Toxicity to algae: | • EC50 (72 h) >10,000 mg/l (Scenedesmus subspicatus OECD 201) comparable substance |

12.2 – Persistence and degradability

The standard methods for assessing biodegradability do not apply to inorganic substances.

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 is not available, as a chemical safety assessment is neither required nor has it been conducted.

12.6 – Endocrine disrupting properties

No data available

12.7 – Other adverse effects

None known

Section 13: Disposable Considerations

13.1 – Waste from residues

Dispose of in accordance with national and local regulations

Section 14: Transport Information

14.1 – UN number

None

14.2 – UN proper shipping name

Not dangerous goods

14.3 – Transport hazard class(es)

DOT/IMDG/IATA/TDG – None

14.4 – Packaging group

None

14.5 – Environmental hazards

DOT/IMDG/IATA/TDG – None

14.6 – Special precautions for user

No data available

Further information:

This product does not classify as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

SARA 302/304:

Substance not listed

SARA 313:

Substance not listed

TSCA:

Substance not listed

California proposition 65:

This product does not contain any chemical known to cause cancer, birth defects, or other reproductive harm.

Regulatory information:

In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP) and Directive 1999/45/EC, the product does not need to be classified nor labelled.

Section 16: Other Information

HMIS rating:	Health/Chronic Health/Flammability/Physical Hazard – 2/-/0/0
NFPA rating:	Health Hazard/Fire Hazard/Reactivity Hazard – 2/0/0
Prepared by:	Santai Science Inc.
Version:	1.0
Last revision date:	N/A

Disclaimer: The information provided in this Safety Data Sheet (SDS) is accurate to the best of our knowledge, information, and belief as of the date of publication. It is intended solely as guidance for the safe handling, use, processing, storage, transportation, disposal, and release of the product. This SDS does not constitute a warranty, express or implied, nor does it guarantee product quality or performance under specific conditions. Users are responsible for ensuring compliance with applicable regulations and assessing the suitability of the product for their intended use.