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SAFETY DATA SHEET
Sodium Polytungstate (SPT)

Revised April 2025

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Substance name:	Sodium Polytungstate
Index-No.:	074-001-00-X
EC-No.:	412-770-9
CAS-No.:	12333-13-0
REACH-Registration No.: z	01-2120061128-61-0000
Synonyms:	Sodium metatungstate, Sodium polytungstate hydrate, SPT

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

Relevant identified uses: For the preparation of aqueous heavy-liquids.

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor
GeoLiquids, Inc.
15 East Palatine Road, Suite 109
Prospect Heights, IL 60070 USA
847-215-0938 | 800-827-2411

1.4 Emergency telephone number

Call INFOTRAC 1-800-535-5053 | 24 hour emergency

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:
Acute Tox. 4 H302 Harmful if swallowed

Eye Dam. 1 H318 Causes serious eye damage

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
Classification according to Regulation 67/548/EEC or 1999/45/EC:
Xn R22; Xi R41; R52-53
Full text of R-, H- and EUH-phrases: see section 16.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:

GHS07

GHS05

Signal word:	Danger
Hazard statements(s):	H302 Harmful if swallowed. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P273 Avoid release to the environment.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance name:	Sodium Polytungstate
Index-No.:	074-001-00-X
EC-No.:	412-770-9
CAS-No.:	12333-13-0
REACH-Reg. No.:	01-2120061128-61-0000

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Following inhalation:	Take the patient into the fresh air. Symptomatic treatment.
Following skin contact:	Wash immediately with plenty of water.
Following eye contact:	Rinse eyes with water for at least 15 minutes, keeping the lids open. Consult a doctor.
Following ingestion:	In case of swallowing, drink plenty of water. Induce vomiting. Symptomatic treatment. Consult a doctor.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media: Carbon dioxide, foam, powder, water spray jet, water spray mist.

5.2 Special hazards arising from the substance or mixture
In case of fire: Generation of tungsten trioxide.

5.3 Advice for firefighters
Prevent fire-extinguishing water from contaminating surface or ground waters.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. Use the personal protective equipment listed in Section 8.

6.2 Environmental precautions:
Prevent product from invading surface waters and soil. Do not empty into drains.

6.3 Methods and material for containment and cleaning up:
Spilled material may be collected mechanically under avoidance of a dust, filled into appropriate containers.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
Measures taken as a protection from fire and explosions: Keep away from sources of ignition.
Measures taken as a protection from dust and aerosols: Provide for sufficient ventilation and suction.
General hygiene measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Wash hands.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a dry, cool and well-ventilated place. Keep away from food products and beverages.
Requirements for storage rooms and vessels: Keep in sealed original containers.
Storage class: 13 (VCI)
Store only in the original receptacle.
Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Personal protective equipment

Personal protective:	Wear protective clothing.
Eye protection:	Use safety glasses according to EN 166:2001.
Hand protection:	Wear protective gloves according to EN 374.
Respiratory protection:	While filling wear dust mask or respiratory equipment with filter type particle filter P1 according to DIN EN 143.

8.2 Environmental exposure controls
See section 6 and 7.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	solid or liquid (diluted in water)
Color:	white solid powder or light yellow-greenish liquid
Odor:	neutral

Safety relevant basic data

pH-Value:	about 3 at 20 °C
Melting point/freezing point:	not determinable (decomposition)
Initial boiling point/boiling range:	not applicable (solid)
Flashpoint:	not applicable
Flammability (solid, gas):	not applicable

Explosive limits:	not relevant
Vapor pressure:	not relevant
Relative density:	5.47 g/cm3 at 20 °C
Viscosity:	about 60 mPa·s (solution with density 3.1 g/cm3)
Bulk density:	about 1570 kg/m3
Solubility in water:	> 1000 g/l at 20 °C
Surface tension:	73.4 mN/m at 20 °C and 1254 mg/l
Partition coefficient n-octanol / water:	< -5.2 at 20 °C
Auto-ignition temperature:	not applicable
Explosive properties:	none
Oxidising properties:	none

SECTION 10 - STABILITY AND REACTIVITY

10.1 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

10.2 Possibility of hazardous reactions
There are no expected hazardous reactions for intended use.

10.3 Hazardous decomposition products
In case of fire generation of tungsten trioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	LD50 (oral, rat):	1715 mg/kg
	LD50 (dermal, rat):	> 2000 mg/kg
Skin corrosion/irritation:	rabbit (exposition 4 h):	not irritating
Eye damage/irritation:	rabbit:	causes serious eye damage
Sensitisation to respiratory tract/skin:	guinea pig:	not sensitizing
Mutagenicity:	Ames-Test:	not mutagenic

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Aquatic toxicity

Fish:	LC50 (96 h) Cyprinus carpio:	420 mg/l
Daphnie:	EC50 (48 h) Daphnia magna:	83 mg/l
Algae:	EC50 (72 h) Desmodesmus subspicatus:	> 79 mg/l

12.2 Persistence and degradability
Not applicable

SECTION 13 - DISPOSAL CONSIDERATION

13.1 Waste treatment methods:	Collect all materials for reuse, if possible. Contact manufacturer. Waste can be disposed of in accordance with local regulations.
Packaging disposal:	Disposal under conditions approved by the local authority.
Waste codes according to EWC / AVV:	51540

SECTION 14 - TRANSPORT INFORMATION

14.1 Environmental threats
Label for environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:	no
Marine pollutant:	no

14.2 Special precautions for user
No dangerous goods. Keep separate from foodstuffs.

SECTION 15 - REGULATORY INFORMATION

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

Water hazard classification:	WGK 2 (according to VwVwS, annex 4)
TRGS 900 (workplace limits):	Tungsten compounds, soluble: 1 mg/m3 E (DK, 1, 25)

SECTION 16 - OTHER INFORMATION

Relevant R-, H- and EUH-phrases (number and full text) which are mentioned in section 1 - 15:

According to Regulation 67/548/EEC:	R22	Harmful if swallowed.
	R41	Risk of serious damage to eyes.
	R52-53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
According to Regulation (EC) No. 1272/2008:	H302	Harmful if swallowed.
	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.

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 guide 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.

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