

# Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 27.02.2019

Version number 1

Revision Date 28.03.2014

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Sodium Silicotungstate**
- **Article number:** AGR1230
- **CAS Number:**  
12027-47-3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:**  
Laboratory chemical, Manufacture of substances.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier.**  
Agar Scientific Ltd  
Parsonage Lane  
Stansted CM24 8GF  
United Kingdom  
sales@agarscientific.com  
Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **1.4 Emergency telephone number:** 24 hours: +44 (0)1856 407333

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H302+H332 Harmful if swallowed or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)

# Safety data sheet

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**Trade name: Sodium Silicotungstate**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. *(Contd. of page 1)*

· **Hazard description:**

This product has a relatively low toxicity rating and no handling problems are likely to be encountered providing normal safe practices of hygiene are applied.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**

· **CAS No. Description**

12027-47-3 Sodium Silicotungstate

· **Identification number(s)** AGR1230

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

No adverse effects are anticipated from inhalation.

Move to fresh air. Call a physician immediately.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

Rinse immediately with plenty of water and seek medical advice.

· **After eye contact:**

Rinse opened eye under running water. If symptoms persist, consult a doctor.

If the substance has entered the eyes, wash with water or saline solution for at least 15 minutes. Seek medical advice.

· **After swallowing:**

Call for a doctor immediately.

Do not induce vomiting without medical advice.

If the chemical has been confined to the mouth give large quantities of water as mouthwash. Ensure that the mouthwash is not swallowed. If the chemical has been swallowed, give 250ml of water to dilute the stomach. In severe cases obtain medical attention.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

· **5.2 Special hazards arising from the substance or mixture** Burning produces irritant fumes.

*(Contd. on page 3)*

# Safety data sheet

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Revision Date 28.03.2014

Trade name: **Sodium Silicotungstate**

*(Contd. of page 2)*

- **5.3 Advice for firefighters**
- **Protective equipment:**  
Positive pressure self-contained breathing apparatus.  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Prevent product from entering drains.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Sweep up and shovel into suitable containers for disposal.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Use only in area provided with appropriate exhaust ventilation.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** To be stored in room temperature.
- **Information about storage in one common storage facility:**  
Do not store with oxidising and spontaneously flammable products.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>12027-47-3 Sodium Silicotungstate</b>	
TWA	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>

- **Additional information:**  
The lists valid during the making were used as basis.  
Toxicity: 3300mg/kg.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

*(Contd. on page 4)*

# Safety data sheet

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Version number 1

Revision Date 28.03.2014

**Trade name: Sodium Silicotungstate**

(Contd. of page 3)

Avoid contact with the eyes and skin.

Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Ensure adequate ventilation.

Breathing apparatus needed only when aerosol, vapor or dust is formed.

**Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**


Tightly sealed goggles

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**General Information**
**Appearance:**

Form: Crystalline powder

Colour: Whitish

Odour: Characteristic

Odour threshold: Not determined.

pH-value: Not applicable.

**Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

**Explosion limits:**

Lower: Not determined.

(Contd. on page 5)

# Safety data sheet

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Version number 1

Revision Date 28.03.2014

**Trade name: Sodium Silicotungstate**

(Contd. of page 4)

<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not determined.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** None under normal processing.
- **10.4 Conditions to avoid** Exposure to air or moisture over prolonged periods.
- **10.5 Incompatible materials:** Strong oxidising agents.
- **10.6 Hazardous decomposition products:**  
Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed or if inhaled.
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**  
3300 mg/kg.  
Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.  
Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

(Contd. on page 6)

# Safety data sheet

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Version number 1

Revision Date 28.03.2014

Trade name: **Sodium Silicotungstate**

*(Contd. of page 5)*

- skin), nausea, vomiting, headache.
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**  
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Leaks and spills: Sweep up spilled substance but avoid making dust. Transfer to a closable salvage container for disposal by an appropriate method or retain for recovery.

Cleaning-up: Wash the spillage site with large amounts of water.

- **Recommendation:** Do not re-use empty containers.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	Not regulated.
· <b>14.2 UN proper shipping name</b>	Not regulated.
· <b>14.3 Transport hazard class(es)</b>	Not regulated.
· <b>14.4 Packing group</b>	Not regulated.
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No Yes (PP)
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

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 Trade name: **Sodium Silicotungstate**

(Contd. of page 6)

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Sales department
- **Contact:**  
 sales@agarscientific.com  
 Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**  
 PP: Severe Marine Pollutant  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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