

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Tin Sample Additive, OEA

Catalogue no: R51120

SDS reference no: R51120

Brand: OEA Labs

EC index no(s): 231-141-8

REACH no: The annual tonnage does not require registration.

CAS no(s): Sn[7440-31-5]

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

Identified uses: Elemental analysis scientific instrumentation. Not for pharmaceutical, domestic or other uses.

1.3 Details of the supplier of the safety data sheet

Company name: OEA Laboratories Limited
Unit C2 Florence Road Business Park
Kelly Bray, Callington, Cornwall
PL17 8EX, United Kingdom

Telephone: +44 (0)1579 384174

Fax: +44 (0)1579 384174

Email: sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

SECTION 2. Hazards identification

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

Serious eye damage/eye irritation (Category 2A), H319

Specific organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

2.2 Labelling elements according to Regulation (EC) No 1272/2008

Pictogram(s):



GHS07



GHS08

Signal word: Warning

Hazard statement(s):

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Restricted to professional users.

2.2 Other hazards

None

SECTION 3. Composition/information of ingredients

3.1 Substances

Synonyms:

Formula: Sn

Molecular weight: 118.71 g/mol

Components:

Tin Concentration: ~100%

CAS No 7440-31-5, EC No 231-141-8, H319, Serious eye damage/eye irritation, Category 2A; H335, Specific organ toxicity, single exposure; Respiratory tract irritation, Category 3;

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Tin/tin oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air and moisture sensitive.

7.3 Specific end uses

No data available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

Tin

CAS No 7440-31-5, TWA, 2mg/m³, UK, EH40 WEL; STEL, 4mg/m³, UK, EH40 WEL

8.2 Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection:

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).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental protection:

No data available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Powder
Colour:	Grey metallic
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point:	232°C
Boiling point:	2260°C
Flash point:	No data available.
Flammability solid/gas:	No data available.
Upper/lower flammability or explosive limits:	No data available.
Water solubility:	No data available.
Autoignition temp:	No data available.
Decomp temperature:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

9.2 Other safety information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents, Sulphur compounds, Strong bases, Halogens, Do not store near acids.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/eye irritation:

No data available.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

Carcinogenicity - rat - Implant. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Carcinogenicity - mouse - Implant. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

No data available.

Specific target organ toxicity - single exposure:

Inhalation - May cause respiratory irritation.[]

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Potential health effects - inhalation:

May be harmful if inhaled. Causes respiratory tract irritation.

Potential health effects - ingestion:

May be harmful if swallowed.

Potential health effects - skin:

May be harmful if absorbed through skin. May cause skin irritation.

Potential health effects - eyes:

Causes serious eye irritation.

Signs and symptoms of exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information:

RTECS: XP7320000

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish: No data available.

**Toxicity to daphnia
and other aquatic
invertebrates:** No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging:

Dispose of as unused product.

SECTION 14. Transport information

14.1 UN number

ADR/RID/IATA/IMDG: Not dangerous goods

14.2 UN proper shipping name

ADR/RID/IATA/IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID/IATA/IMDG: Not dangerous goods

14.4 Packaging group

ADR/RID/IATA/IMDG: Not dangerous goods

14.5 Environmental hazards

ADR/RID/IATA/IMDG: Not dangerous goods

14.6 Special precautions for user

Not dangerous goods

14.7 Shipping quantities

ADR LQ maximum: Not dangerous goods

ADR EQ code: Not dangerous goods

ADR EQ IP/pkg: Not dangerous goods

IATA LQ PInstruction: Not dangerous goods

IATA LQ IP/pkg: Not dangerous goods

IATA EQ code: Not dangerous goods

IATA EQ IP/pkg: Not dangerous goods

De minimus: Not dangerous goods

SECTION 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

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

No data available.

15.2 Chemical safety assessment

No data available.

SECTION 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See www.oelabs.com for terms and conditions of sale.