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MATERIAL SAFETY DATA SHEET

PRODUCT NAME : SODIUM STANNATE

Chemical Name	Sodium Stannate
Synonyms	Stannate of soda
Chemical Formula	$Na_2SnO_3 \cdot 3H_2O$ or $Na_2Sn(OH)_6$

2.COMPOSITION / INFORMATION ON INGREDIENT

<u>Chemical Name</u>	<u>Cas No</u>	<u>%</u>	<u>EINECS – NR</u>	<u>EC-No</u>	<u>Symbol(s)</u>	<u>R-Phrase(s)</u>
Sodium Stannate	12027-70-2	96	234-724-5	N/A	Xi-irritant	36/37/36
Sodium Hydroxide	1310-73-2	2	215-185.5		215-185.5	36/38

3.HAZARDS IDENTIFICATION

Physical / Chemical hazards

No significant hazards

Environmental hazards

May causes long-term adverse effects in the aquatic environment

Human health hazards

Skin and eye irritant.

4.FIRST AID MEASURES

Effects and symptoms

Ingestion

Ingestion of large amounts may cause nausea and vomiting

Inhalation

May cause nasal irritation

Skin contact

May cause skin irritation

Eye contact

May cause eye irritation on contact

First Aid measures

Ingestion

Drink plenty of water.Consults a physician immediately

Inhalation

Move to fresh air

Skin contact

Wash of immediately with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water,also under the eyelids.

If eye irritation persists,consult a specialist.

5.FIRE - FIGHTING MEASURES

Flemmability

Non flammable.

Suitable extinguishing media

Water,dry powder,foam,carbon dioxide(CO₂)

Suitable

None

Non suitable

None

Harardous decomposition products

6.ACCIDENTAL RELEASE MEASURES

Personal precautions
Environmental precautions
Methods for cleaning up

Use personal protective equipment.
Do not flush into surface water or sanitary sewer system.
Shovel or sweep up into a suitable container for disposal

7.HANDLING AND STORAGE

Storage/Handling

No special storage conditions required.Keep containers tightly closed in a dry,cool and well - ventilated place.

Packaging Material

Suitable
Not Suitable

Polyethylene containers, * mid steet

8.EXPOSURE CONTROLS/ PERSONAL PROTECTION

National Occupational Exposure limits

Chemical Name
OEL (United Kindom)
Recommended monitoring
Procedures

Sodium Stannate
2mg/m³ as Sn,8-hour TWA/ 4 mg/m³ as Sn,8 *15 minute
Personal sampler.

Personal protection equipment

Respiratory protection
quantities.
Skin and body protection
Hend protection
Eye protection

Dusi mask may be necessary when handling bulk
Lightweight protective clothing
Rubber or plastic gloves.
Goggles.

9.PHYSICAL AND CHEMNICAL PROPERTIES

Form
Color
Odor
Molecular weight
Bolling Point/range
Melting point / range
Freezing Point
Decomposition temperature
Bulk Density
Specific gravity (H2O = 1)
pH
Solubillty

Powder
White
None
266.73
At 140°C ioses 3 H²O
13 (10%soln)
43% @ 25°C

10.STABILITY AND REACTIVITY

Stability
Materials to avoid
hazardous decomposition products

Stable
no special precautions required

11.TOXICOLOGICAL INFORMATION

Main Constituent(s)

Sodium Stannate.

Acute toxicity

Oral

Na₂SnO₃

poorly absorbed

Inhalation

inhalation are likely

dust.

Chronic toxicity

Skin irritation

likely to

Eye irritation

The following data reported for the anhydrous salt

LD₅₀/oral/rat = 3457 mg/kg, inorganic tin compounds are

when ingested and consequently are at low toxicity. No inhalation toxicity available. The main effects of

to be irritation of the respiratory system upon inhaling the

No data available.

Known skin irritant - no data available. Prolonged exposure

cause skin dryness and rashes.

Eye contact causes irritation - no data available

12. ECOLOGICAL INFORMATION

Persistence and degradability

It is unlikely that Sodium Stannate will chemically degrade - it is composed of the stable Stannic oxide species.

Ecotoxicity effects

No data available. The likely short-term effect of Sodium Stannate entering water courses will be to increase the alkalinity of the water causing harm to aquatic organisms and vegetation.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

Other information

Dispose of in accordance with local and national legislation.

14. TRANSPORT INFORMATION

UN - No

regulations.

IMDG / ADR Class

Not classified as dangerous in the meaning of transport

15. REGULATORY INFORMATION

EC Regulations

EC Classification

(67/548/EeC-88/379/EEC-92/32/EEC

label Name

R-phrases (s)

S-phrases (s)

XI - Irritant

SODIUM STANNATE

R36/37/38-Irritating to eyes, respiratory system and skin.

S26-in case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S37/39-Wear suitable gloves and eye/face protection

Symbols

Irritant