



Material safety data sheet

according to Regulation No. 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

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1. Identification of the product and the company

1.1 Product identifier

Substance name: Tin dioxide

TIN OXIDE - Tin Oxide

Cas: 18282-10-5; EINECS: 242-159-0

Registration number: 01-2119946062-44-0004

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

Industrial Use: Ceramic Applications

Recommendation: use only in the above-mentioned work processes

1.3 Details of the suppliers of the safety data sheet

Manufacturer/supplier

OXIMET S.R.L.

Via Regina Pacis, 200 - 41049 SASSUOLO (MO) - ITALY

oximet@zircosil.com

1.4 Emergency telephone number

See also section 16

Telefono +39 0536 800801

2. Identification of dangers

2.1 Types of danger

The product does not present risks for user's health if he applies the habitual precaution on the use of the chemical products

2.2 Label

Danger indications:

Signal word: -

3. Composition information about the ingredients

Type Raw Material

3.1 Substances

Tin dioxide	100,00%
Cas: 18282-10-5; EINECS: 242-159-0	

3.2 Mixture

Not applicable

4. First-aid measures

4.1 Description of first aid measures

Contact with the skin:	take any contaminated clothes off and wash with soap and water. In case of persistent inflammation or of lesions consult the doctor.
Contact with the eyes:	wash plentifully with running water.
Inhalation:	move the person to open air.
Ingestion:	have the person drinks a lot of water.

4.2 Most important symptoms and effects, both acute and delayed

There aren't other informations

4.3 Indication of any immediate medical attention and special treatment needed

Follow the recommendations of section 4.1

5. Firefighting measures

5.1 Firefighting measures

Valid firefighting measures:	C02, sand, powder, water.
Non-valid firefighting measures:	None.

5.2 Special hazards arising from the substance or mixture

Do not inhale gases

5.3 Specific protective measures

Use suitable breathing apparatus.
If necessary use mask.

6. Accidental leakage preventive measures

6.1 Personal precautions, protective equipment and emergency procedures

Collect avoiding accumulation of powder.
The use of mask and gloves is recommended.

6.2 Environmental precautions

Keep the product away from drains.

6.3 Methods and material for containment and cleaning up

Use aspiration systems.

6.4 Reference to other sections

See also section 7, 8 and 13

7. Handling and Storage

7.1 Precautions for safe handling

The product must be handled by staff with a suitable training.
Avoid inhaling powders/mists and the direct contact with the product as much as possible.
Handle in a suitably ventilated room and equip the working stations with localized suction inlets connected with a suitable abatement system: cloth filters, electro-static precipitators, Venturi wet abaters suitable for powders/mists.
Follow the standard safety measures for handling chemicals.
No food or drink while working.
Keep far from food, drinks and fodder.
Take contaminated clothing immediately off.
Wash hands before breaks or at the work end.
Store the protection means separately.
Do not inhale gases/vapours/aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Store separate from food and drinks, in closed containers and protected places.
Preferably use genuine containers or, as alternative, containers of the same material.
Keep the containers air-tight.

7.3 Specific end use(s)

None in particular

8. Exposure monitoring and individual protection

8.1 Control parameters

List of the known exposure limits for the various substances examined in the product:

TLW/TWA(ACGIH)	Tin dioxide 2 mg/mc
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8.2 Exposure controls

Respiratory protection:	Respiratory protection should be worn when there lies the possibility that the exposure limit value is exceeded. In the absence of exposure limits, wear respiratory protection when adverse symptoms are noted, such as respiratory irritation or discomfort, or if indicated by the results of the risk assessment. Recommended filter type: FFP2.
Hands protection:	Wear protective gloves. The glove material must be water-proof and stable against the product. As no test is available, no type of materials for the gloves to handle the product can be recommended. The material must be chosen considering the passage times, permeation rates and degradation. The choice of suitable gloves does not depend on the material, only, rather on other quality features variable among manufacturers. As the product is a formulation of several substances, the glove material stability cannot be evaluated in advance and must be tested before the use. Ask the supplier the specific passage time that must be complied with.
Eye protection:	During special operations possibly involving sudden product splashes or projections use sealed goggles.
Skin protection:	Wear light protective clothing while working.
Environmental exposure control:	as far as possible, avoid dispersal of the product in the environment.

9. Chemical - physical properties

9.1 Information on basic physical and chemical properties

Appearance

Form: Powder

Colour: Colourless/White

Odour: Odourless

pH-value at 20 °C: Not determined

Change in condition

Melting point/Melting range: 500-1000°C

Boiling point/Boiling range: Not determined

Flash point:

Combustibility: Not combustible

Ignition temperature: Not determined

Self-igniting: Product is not selfigniting

Danger of explosion: Product is not explosive

Explosion limits

Lower: Not determined

Upper: Not determined

Vapour pressure at 20 °C: Not determined

Density at 20 °C: Not determined

Solubility in / Miscibility with water at 20° C°: Not soluble

Viscosity

Dynamic: Not determined

Kinematic: Not determined

Corrosive: Not corrosive

Volatile: Not Volatile

Solvent content

Organic solvents: Not determined

9.2 Other information

None in particular

10. Stability and reactivity**10.1 Reactivity**

The product does not result in dangerous reactions in normal conditions of use.

10.2 Chemical stability

The product does not result in dangerous reactions in normal conditions of use.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

For an ideal conservation of the product avoid high and low temperatures.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

The vapours which emerge during the application and the baking of the material must be sufficiently aspired and sent to the vapour purifier, thus avoiding their diffusion in the work space.

11. Toxicological information**11.1 Informazioni sugli effetti tossicologici**

Specific information about the product are not available.

The following information are assumed from the toxicological behaviour of the components; whenever they are available.

12. Ecological information**12.1 Toxicity**

At the moment specific data are available on the environmental impact of the product.
It is recommended to limit the leakage in the environment as much as possible.

12.2 Persistence and degradability

There aren't other informations

12.3 Bioaccumulative potential

There aren't other informations

12.4 Mobility in soil

There aren't other informations

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

The possible ways of spreading, according to the application methods, are the following:

- aeriform emissions: during the spray applications part of the product can be vapourized ; supply the aspiration plant with an adequate extraction system;
- emission of liquid reflux: the water used for washing during the work must be adequately purified;

13. Discharge considerations**13.1 Waste treatment methods**

Waste produced in water purification must be discharged according to D.L. 152/06 in compliance with the relative regional laws.
This destination must also be chosen for the empty and half-empty product containers.

14. Transport information

Follow the ADR regulations for road transport, the RID regulations for rail transport, IMDG for sea transport and ICAO/IATA for air transport:

ADR/RID:	Not restricted
IMDG:	Not restricted
ICAO/IATA:	Not restricted

15. Regulation Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Data and information in this safety sheet comply with the directives 1967/548/EEC, 1999/45/EC, 76/769/EC, the regulations 1907/2006/EC (REACH) and 1272/2008/EC (CLP) and with the specifications of the laws in force on classification, packing and labelling of hazardous substances and compounds. Anyway, the user shall check and comply with specific national, regional and local norms on hazardous activities and environmental protection (e.g. liquid, solid and gaseous emissions) not covered in this document.

DLgs. 81/08	Text only with regard safety and health on the workplace.
DLgs. 334/99	Activities with significant accident risks.
DLgs. 152/06	Norms on the environment.

15.2 Chemical safety assessment

No

16. Further information

The indications in the following sheet are based on the knowledge presently available.
We do not assume any responsibility about their incompleteness and imprecision.

Poison control centers (national)

Centro Antiveleni - Ospedale Molinette (Torino) - Tel. +39 011 6637637

Centro Antiveleni di Pavia, Centro Nazionale di Informazione Tossicologica, Servizio di Tossicologia
Istituto Scientifico di Pavia IRCCS Fondazione Maugeri (Pavia) - Tel. +39 0382 24444

Centro Antiveleni di Milano - Ospedale Niguarda Ca' Granda (Milano) - Tel. +39 02 66101029

Centro Antiveleni di Bergamo, U.F. Tossicologia Clinica - Ospedali Riuniti (Bergamo) - Tel. +39 035 269469

Pronto Soccorso, Primo Accoglimento, Centro Antiveleni - IRCCS Burlo Garofalo (Trieste) - Tel. +39 040 3785373

Servizio Antiveleni Servizio di Pronto Soccorso, Accettazione e Osservazione
IRCCS Istituto Scientifico G. Gaslini (Genova) - Tel. + 39 010 5636245

Centro Antiveleni Unità Operativa di Tossicologia Medica - Azienda Ospedaliera Careggi (Firenze) - Tel. +39 055 4277238

Centro Antiveleni - Istituto di Anestesiologia e Rianimazione Policlinico Gemelli (Roma) - Tel. +39 06 3054343

Centro Antiveleni - Istituto di Anestesiologia e Rianimazione Policlinico Umberto I (Roma) - Tel. +39 06 49978000

Centro Antiveleni - Ospedale Cardarelli Napoli - Tel. +39 081 7472870 / +39 081 5453333

Poison control centers (international)

France 0033 (0) 1 454259 9

United Kingdom 0845 4647

Spain 0034 91 562 04 20

Czech Republic 224 919293 / 224 915402

Portugal 808 250143

Hungary 06 1 476 6464