



Safety Data Sheet

OTV - OTO 105 - OTO EXTRA - OTO EXTRA HPG - OTV XP - OTV/F

Safety Data Sheet dated 26/01/2023, version 3

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

1.1. Product identifier

Mixture identification:

Trade name: OTV - OTO 105 - OTO EXTRA - OTO EXTRA HPG - OTV XP - OTV/F

CAS number: 18282-10-5

EC number: 242-159-0

REACH number: 01-2119946062-44-0004

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

Recommended use:

SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites

Uses advised against:

Uses other than those recommended.

1.3. Details of the supplier of the safety data sheet

Company:

Oximet S.r.l.

Viale Regina Pacis, 200

41049 Sassuolo (MO)

[t] +39 0536 800801

[f] +39 0536 803295

Competent person responsible for the safety data sheet:

oximet@zircosil.com

1.4. Emergency telephone number

CHEMTREC Global Number

Toll Free: +1-800-424-9300

Local: +1-703-527-3887

Local phone numbers are detailed in paragraph 16

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Identification of the substance:

Trade code: OTV, O105, EXTRA, HPG, OTV XP, OTV/F
CAS number: 18282-10-5
EC number: 242-159-0
REACH number: 01-2119946062-44-0004

Qty	Name	Ident. Number	Classification
>99 %	Tin oxide (IV)	CAS: 18282-10-5 EC: 242-159-0 REACH No.: 01-21199460 62-44-XXXX	Substance with a Union workplace exposure limit.

3.2. Mixtures

N.A.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

The substance is an inorganic oxide in which the inorganic element is in its highest possible oxidation state therefore it is incapable of further reaction with oxygen and can thus be designated as non flammable.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

For emergency responders:
Wear personal protection equipment.

- 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand.
- 6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
tin oxide - CAS: 18282-10-5
- OEL Type: ACGIH - TWA(8h): 2 mg/m³ - Notes: (I) - Pneumoconiosis
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values
N.A.
- 8.2. Exposure controls
Eye protection:
It is recommended to wear safety glasses to avoid splashing in the eyes that can cause discomfort.
Suitable protective glasses (EN166).
- Protection for skin:
It is recommend to wear protective clothing according to good hygiene practices.
Safety shoes.
- Protection for hands:
Wear protective gloves.
The glove material must be water-proof and stable against the product.
The material must be chosen considering the passage times, permeation rates and degradation and the usage times and modalities
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.

Protective gloves for chemicals agents in compliance with standard EN 374.

Respiratory protection:

Respiratory protection should be worn when there lies the possibility that the exposure limit value is exceeded.

Recommended filter type: FFP2 as per standard EN 141.

Thermal Hazards:

None

Environmental exposure controls:

Prevent the material from contaminating the water in the subsoil.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Solid	--	Solid at 20°C and 101.3 kPa
Colour:	White	--	All the studies cited in the endpoint report that tin dioxide is a white powder at ambient temperature
Odour:	Odorless	--	--
Melting point/freezing point:	N.A.	--	The melting point of the test substance cannot be determined since the substance decomposes
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	The substance is an inorganic oxide in which the inorganic element is in its highest possible oxidation state therefore it is incapable of further reaction with oxygen and can thus be designated as non flammable
Lower and upper explosion limit:	N.A.	--	The substance is an inorganic oxide in which the inorganic element is in its highest possible oxidation state therefore it is incapable of further reaction with oxygen and can thus be designated as non flammable
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	The substance cannot spontaneously catch fire on the basis of the chemical structure. The substance is an inorganic oxide, in which the inorganic element is in its highest possible oxidation state therefore it is incapable of further reaction with oxygen
Decomposition temperature:	N.A.	--	--

pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	The viscosity study does not need to be conducted as the substance is a solid
Solubility in water:	Insoluble	OECD 105 and EU Method A.6	The water solubility of tin from tin dioxide in double distilled water at 20°C is below the limit of quantification (2.5 µl)
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	The partition coefficient study does not need to be conducted as the substance is inorganic
Vapour pressure:	N.A.	--	The vapour pressure study does not need to be conducted as the melting point is above 300°C
Density and/or relative density:	6.936 g/cm ³	OECD 103, EU Method A.3	6.936 at 20°C
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Corrosiveness:	Non corrosive	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions.
- 10.2. Chemical stability
Stable under normal conditions.
- 10.3. Possibility of hazardous reactions
None.
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the substance:

N.A.

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;

- g) reproductive toxicity;
 - h) STOT-single exposure;
 - i) STOT-repeated exposure;
 - j) aspiration hazard.
- 11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
N.A.
- 12.2. Persistence and degradability
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
N.A.
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013



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Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of
Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical



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	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

Country: Argentina, Language: Latin American Spanish, Number Type: Local (City), City: Buenos Aires, Local Number: +54 11 5983-9431
Country: Australia, Language: English, City: Sydney, Local Number: +61 2 9037 2994
Country: Australia, Language: English, Number Type: Toll Free, Toll-Free Number: 1800 862 115
Country: Austria, Language: Austro-Bavarian and German, Number Type: Local (City), City: Vienna, Local Number: +43 1 3649237
Country: Austria, Language: Austro-Bavarian and German, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 0800 293702
Country: Belgium, Language: French, Flemish, and German, Number Type: Local (City), City: Brussels, Local Number: +32 2 808 32 37
Country: Bolivia Language: Latin American Spanish, Number Type: Toll Free, Toll-Free Number: 800 10 1913
Country: Brazil, Language: Portuguese, Number Type: Local (City), City: Rio De Janeiro, Local Number: +55 21 3958-1449
Country: Brazil, Language: Portuguese, Number Type: Local (City), City: Sao Paulo, Local Number: +55 11 4349-1359
Country: Brazil, Language: Portuguese, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 0800 892 0479
Country: Bulgaria, Language: Bulgarian, Number Type: Local (City), City: Plovdiv, Local Number: +359 32 570 104
Country: Canada, Language: English, Number Type: Local (City), City: Northern Virginia, Local Number: +1 703-741-5970
Country: Cayman Islands, Language: English, Number Type: Local (National), Local Number: 1 (345) 749-8392
Country: Chile, Language: Latin American Spanish, Number Type: Local (City), City: Santiago, Local Number: +56 2 2581 4934
Country: China, Language: Mandarin, Number Type: Local (National), Local Number: 400 120 4937



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Country: Costa Rica, Language: Latin American Spanish, Number Type: Local (National), Local Number: +506 4000 3869

Country: Croatia, Language: Croatian, Number Type: Local (City), City: Zagreb, Local Number: +385 1 7776 920

Country: Czech Republic, Language: Czech, Number Type: Local (City), City: Prague, Local Number: +420 228 880 039

Country: Denmark, Language: Danish, Number Type: Local (National), Local Number: +45 69 91 85 73

Country: Dominican Republic, Language: Latin American Spanish, Number Type: Local (City), City: Santo Domingo, Local Number: 1 (829) 956-7588

Country: El Salvador, Language: Latin American Spanish, Number Type: Local (City), City: San Salvador, Local Number: +503 2136 7633

Country: Estonia, Language: Estonian, Number Type: Local (National), Local Number: +372 668 1294

Country: Finland, Language: Finnish, Number Type: Local (City), City: Helsinki, Local Number: +358 9 42419014

Country: France, Language: French, Number Type: Local (National), Local Number: +33 9 75 18 14 07

Country: Germany, Language: German, Number Type: Local (City), City: Frankfurt, Local Number: +49 69 643508409

Country: Germany, Language: German, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 0800 1817059

Country: Greece, Language: Greek, Number Type: Local (City), City: Athens, Local Number: +30 21 1176 8478

Country: Grenada, Language: English, Number Type: Local (City), City: St George, Local Number: 1 (473) 230-0165

Country: Guinea, Language: French, Number Type: Local (Mobile Restricted), Local Number: +224 660 71 03 00

Country: Hong Kong, Language: Cantonese, Number Type: Toll Free, Toll-Free Number: 800 968 793

Country: Hungary, Language: Hungarian, Number Type: Local (City), City: Budapest, Local Number: +36 1 808 8425

Country: Iceland, Language: Icelandic, Number Type: Local (City), City: Reykjavik, Local Number: +354 539 0655

Country: India, Language: Hindi, Bengali, and English, Number Type: International Toll Free (NON-RETAIL), Toll-Free Number: 000 800 1007 141

Country: Ireland, Language: English, Number Type: Local (City), City: Dublin, Local Number: +353 1 901 4670

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Country: Italy, Language: Italian, Number Type: Local (City), City: Milan, Local Number: +39 02 4555 7031

Country: Italy, Language: Italian, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 800 789 767

Country: Japan, Language: Japanese, Number Type: Local (City), City: Tokyo, Local Number: 0800-300-5842

Country: Latvia, Language: Latvian/Lettish, Number Type: Local (City), City: Riga, Local Number: +371 66 165 504

Country: Lithuania, Language: Lithuanian, Number Type: Local (City), City: Vilnius, Local Number: +370 5 214 0238



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Country: Luxembourg, Language: Luxembourgish, French, and German, Number Type: Local (National), Local Number: +352 20 20 24 16

Country: Macedonia, Language: Macedonian, Number Type: Local (City), City: Skopje, Local Number: +389 2 551 7456

Country: Malaysia, Language: Malay, Number Type: Local (City), City: Kuala Lumpur, Local Number: +60 3-9212 5794

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Country: New Zealand, Language: English, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 0800 425 459

Country: New Zealand, Language: English, Number Type: Local (City), City: Auckland, Local Number: +64 9-801 0034

Country: Nigeria, Language: Hausa, Number Type: Local (City), City: Lagos, Local Number: +234 1 227 8883

Country: Panama, Language: Latin American Spanish, Number Type: Local (National), Local Number: +507 832-2475

Country: Peru, Language: Latin American Spanish, Number Type: Local (City), City: Lima, Local Number: +51 1 7071295

Country: Philippines, Language: Tagalog, Number Type: Local (City), City: Manila, Local Number: +63 2 8 395 3308

Country: Philippines, Language: Tagalog, Number Type: Toll Free (High Volume), Toll-Free Number: 1800 1 116 1020

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Country: Romania, Language: Romanian, Number Type: Local (National), Local Number: +40 376 300 026

Country: Russia, Language: Russian, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 8 (800) 100-63-46

Country: Singapore, Language: English and Mandarin, Number Type: Local (National), Local Number: +65 3158 1349

Country: Singapore, Language: English and Mandarin, Number Type: Toll Free, Toll-Free Number: 800 101 2201

Country: Slovakia, Language: Slovak, Number Type: Local (City), City: Bratislava, Local Number: +421 2/330 579 72

Country: Slovenia, Language: Slovene/Slovenian, Number Type: Local (City), City: Ljubljana Local Number: +386 1 888 80 16

Country: South Africa, Language: English, Number Type: Toll Free, Toll-Free Number: 080 098 3611

Country: South Korea, Language: Korean, Number Type: Toll Free, Toll-Free Number: 080 822 1374

Country: Spain, Language: European Spanish, Number Type: Local (City), City: Barcelona, Local Number: +34-931768545

Country: Spain, Language: European Spanish, Number Type: Toll Free - Mobile Enabled (NON-RETAIL), Toll-Free Number: 900 868 538

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Country: Switzerland, Language: French, German, Italian, Number Type: Toll Free - Mobile Enabled, Toll-Free Number: 0800 564 402

Country: Switzerland, Language: French, German, Italian, Number Type: Local (City), City: Zurich, Local Number: +41-435082011



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Country: Taiwan, Language: Mandarin, Number Type: International Toll Free, Toll-Free Number: 00801-14-8954
Country: Thailand, Language: Thai, Number Type: International Toll Free (High Volume), Toll-Free Number: 001-800-13-203-9987
Country: Trinidad and Tobago, Language: English, Number Type: Local (National), Local Number: 1 (868) 224-5716
Country: Turkey, Language: Turkish, Number Type: Local (City), City: Istanbul, Local Number: +90 212 705 53 40
Country: Ukraine, Language: Ukrainian, Number Type: Local (Mobile Restricted), Local Number: +380 94 710 1374
Country: United Kingdom, Language: English, Number Type: Local (City), City: London, Local Number: +44 20 3807 3798
Country: United States, Language: English, Number Type: Local (City), City: Northern Virginia, Local Number: +1 703-741-5970