

Safety Data Sheet

Revision date: 22.07.2022 Version: 6.1 Print date: 22.07.2022

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

1.1 Product identifier

Trade name/designation: OPD Tablets 15/180 mg ULTRA PURE

Product No.: J348

CAS No.: not applicable

Other means of identification: none

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

Relevant identified uses: General chemical reagent

1.3 Details of the supplier of the safety data sheet

Singapore

VWR Singapore Pte Ltd.

Street 18 Gul Drive
Postal code/City Singapore 629468
Telephone +65 6505 0760
Telefax +65 6264 3780

E-mail (competent person) SDS@avantorsciences.com

1.4 Emergency phone number

Telephone +65 (0) 6505 0760 (office hours: 8 am-5 pm)





SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Hazard classes and hazard categories	Hazard statements
Acute toxicity, category 4, oral	H302
Skin irritation, category 2	H315
Eye irritation, category 2	H319
Germ cell mutagenicity, category 2	H341
Carcinogenicity, category 2	H351
Specific target organ toxicity (single exposure), category 3, Respiratory tract irritation	H335
Skin sensitization, category 1	H317

2.2 Label elements

Hazard pictograms



Signal word: Warning

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.





Precautionary			
statements			
P201	Obtain special instructions before use.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
P264	Wash thoroughly after handling.		
P271	Use only outdoors or in a well-ventilated area.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P270	Do not eat, drink or smoke when using this product.		
P202	Do not handle until all safety precautions have been read and understood.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.		
P302+P352	IF ON SKIN: Wash with plenty of water/		
P362+P364	Take off contaminated clothing and wash it before reuse.		
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.		
P308+P313	IF exposed or concerned: Get medical advice/attention.		
P312	Call a POISON CENTER/doctor//if you feel unwell.		
P321	Specific treatment (see on this label).		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P403+P233	Store in a well-ventilated place. Keep container tightly closed.		
P405	Store locked up.		
P501	Dispose of contents/container to		

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.





SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Composition / Information on ingredients

Substance name	Concentration	Identifier	Hazard classes and hazard categories
Sodium cyclamate	55 - 60%	CAS No.: 139-05-9	Acute Tox. 4 - H302
			Skin Irrit. 2 - H315
			Eye Irrit. 2 - H319
			STOT SE 3 - H335
Sodium carbonate	10 - 15%	CAS No.: 497-19-8	Eye Irrit. 2 - H319
L(+)-Tartaric acid	15 - 20%	CAS No.: 87-69-4	Eye Dam. 1 - H318
o-Phenylenediamine	5 - 10%	CAS No.: 615-28-1	Acute Tox. 3 - H301
dihydrochloride			Eye Irrit. 2 - H319
			Muta. 2 - H341
			Carc. 2 - H351
			Aquatic Chronic 1 - H410
			Acute Tox. 4 - H312+H332
			Skin Sens. 1 - H317

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Call a POISON CENTRE/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

Self-protection of the first aider

First aider: Pay attention to self-protection!





4.2 Most important symptoms and effects, both acute and delayed

no data available

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

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons

no restriction

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:

Pyrolysis products, toxic

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of major fire and large quantities: Remove persons to safety.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.





SECTION 7: Handling and storage

7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible:

Inhalation

skin contact

Eye contact

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Store between -25 °C and -10 °C.

Storage class: no data available

Keep container tightly closed and in a well-ventilated place. Keep/Store only in original container.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

no data available

8.2.2 Personal protection equipment

no data available

Eye/face protection

no data available

Recommendation: no data available

Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm

Breakthrough time:: > 480 min

Recommended glove articles: VWR 112-0998





By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm

Breakthrough time:: > 480 min

Recommended glove articles: VWR 112-3717 / 112-1381

Respiratory protection

no data available

Suitable respiratory protection apparatus: no data available Recommendation: no data available Suitable material: no data available Recommendation: no data available

Additional information no data available

8.2.3 Environmental exposure controls

no data available





SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state: solid

Colour: no data available
(b) Odour: no data available
(c) Odour threshold: no data available

Safety relevant basic data

(d) pH: no data available
(e) Melting point/freezing point: no data available
(f) Initial boiling point and boiling range: no data available
(g) Flash point: no data available
(h) Evaporation rate: no data available
(i) Flammability (solid, gas): not applicable

(j) Flammability or explosive limits

Lower explosion limit: no data available
Upper explosion limit: no data available
(k) Vapour pressure: no data available
(l) Vapour density: no data available
(m) Density: no data available

(n) Solubility(ies)

Water solubility: no data available
(o) Partition coefficient: n-octanol/water: no data available
(p) Auto-ignition temperature: no data available
(q) Decomposition temperature: not applicable

(r) Viscosity

Kinematic viscosity: no data available
Dynamic viscosity: no data available
(s) Explosive properties: not applicable
(t) Oxidising properties: not applicable

(u) Particle characteristics: not applicable - no nanoform/not combustible

9.2 Other information

Bulk density: no data available
Refraction index: no data available
Dissociation constant: no data available
Surface tension: no data available
Henry's Law Constant: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available





10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

10.7 Additional information

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity:

Sodium cyclamate - LD50: > 15250 mg/kg - Rat - (Merck KGaA)

Sodium carbonate - LD50: 2800 mg/kg - Rat - (IUCLID)

Sodium carbonate - LDLo: > 714 mg/kg - Human - (RTECS)

L(+)-Tartaric acid - LD50: > 2000 mg/kg - Rat - (IUCLID)

Acute dermal toxicity:

Sodium carbonate - LD50: 2210 mg/kg - Mouse - (National Library of Medicine ChemID Plus (NLM CIP))

L(+)-Tartaric acid - LD50: > 2000 mg/kg - Rat - (IUCLID)

Acute inhalation toxicity:

Sodium carbonate - LC50: 2300 mg/m3 - Rat - (National Library of Medicine ChemID Plus (NLM CIP))

Irritant and corrosive effects

Primary irritation to the skin:

Causes skin irritation.

Irritation to eyes:

Causes serious eye irritation.

Irritation to respiratory tract:

May cause respiratory irritation.





Respiratory or skin sensitisation

In case of skin contact: sensitising After inhalation: not sensitising

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Suspected of causing cancer.

Germ cell mutagenicity

Suspected of causing genetic defects.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not applicable

Other adverse effects

no data available

Additional information

no data available

SECTION 12: Ecological information

12.1 Ecotoxicity

Fish toxicity:

Sodium carbonate - LC50: 300 mg/l (96 h) - Cairns, J.Jr., and A. Scheier 1959. The Relationship of Bluegill Sunfish Body Size to Tolerance for Some Common Chemicals. Proc.13th Ind.Waste Conf., Purdue Univ.Eng.Bull 96:243-252

Daphnia toxicity:

Sodium carbonate - EC50: 200 mg/l (48 h) - Warne, M.S.J., and A.D. Schifko 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol.Environ.Saf. 44(2):196-206

Sodium carbonate - LC50: 565 mg/l (48 h) - Dowden, B.F., and H.J. Bennett 1965. Toxicity of Selected Chemicals to Certain Animals. J.Water Pollut.Control Fed. 37(9):1308-1316

Algae toxicity:

no data available

Bacteria toxicity:

no data available

12.2 Persistence and degradability

no data available





12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

not applicable

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

Additional information

no data available

SECTION 14: Transport information

Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.





SECTION 15: Regulatory information

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

National regulations

- Workplace Safety and Health Act
- Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order
- Environmental Protection and Management Act (EPMA) Second Schedule, Part 1, Control of Hazardous Substances
- Maritime and Port Authority of Singapore (MPA) Dangerous Goods, Petroleum and Explosives Regulations

SECTION 16: Other information

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)

CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)

DNEL - Derived No Effect Level

Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods

KOSHA - Korea Occupational Safety and Health Agency

LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and Health

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

RID - Regulation concerning the International Carriage of Dangerous Goods by Rail

STV - Short Term Value

SVHC - Substances of Very High Concern

vPvB - very Persistent, very Bioaccumulative

Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.





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Additional information

Indication of changes Section 7.1: Introduction of general occupation hygenie measures

Section 8: Update of NOEL data

Section 9: Introduction of particle characteristics

Section 16: Introduction of classification procedure for mixtures

Section 16: Introduction of safety training advice

Section 16: Introduction of relevant hazard statements in full text Section 16: Introduction of key literature references and sources of data

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

