

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: 29CFR1910.1200

Issue Date 29-Dec-2014

Revision Date 29-Dec-2014

1. IDENTIFICATION

Product identifier

Product Name

Denture Cleanser Tablets (sodium perborate formulas)

Other means of identification

Synonyms

Antibacterial Denture Cleanser Tablets (DC) Bi-Layer Denture Cleanser Tablet (ML) Overnight Denture Cleanser Tablets (OL)

Effervescent Cleanser Tablets (RAF)

Other Information

Mixture of detergents, mild inorganic bleaching agents and auxiliary ingredients.

Recommended use of the chemical and restrictions on use

Recommended Use

Consumer use.

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier Address

USA

Manufacturer Address

Tower Laboratories Ltd

Tower Laboratories Ltd

8 Industrial Park Road (PO Box 306)

Centerbrook CT 06409

8 Industrial Park Road (PO Box 306)

Centerbrook CT 06409

USA

Emergency telephone number

Company Phone Number

860-767-2127

Emergency Telephone

Call CHEMTREC Day or Night:

Within USA and Canada: 1-800 424-9300 Outside USA and Canada: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reversible eye irritation	Category 2
Reproductive toxicity	Category 1B

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed Harmful if inhaled

Causes serious eye irritation

May damage fertility or the unborn child



This is a low hazard product. However, chewing or swallowing the tablets or gargling with the solution may cause serious health effects. DO NOT take internally. Do not breathe dust. Keep out of eyes and avoid extended contact with skin to minimize chance of irritation.

Appearance Loose powder or tablet

Physical state Solid

Odor Peppermint

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- · Harmful to aquatic life with long lasting effects
- When added to water, the product produces carbon dioxide bubbles for agitation, and a mild detergent and peroxide solution for cleaning.
- · Read entire Safety Data Sheet for more information regarding this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

This product is a mixture.

Synonyms

Antibacterial Denture Cleanser Tablets (DC) Bi-Layer Denture Cleanser Tablet (ML) Overnight Denture Cleanser Tablets (OL) Effervescent Cleanser Tablets (RAF)

Chemical Name	CAS No.	Weight-%
Oxone	70693-62-8	10-40%
Sodium Perborate Monohydrate	10332-33-9	10-30%
Citric acid	77-92-9	0-20%
Sodium carbonate	497-19-8	5-15%
Sodium sulfate	7757-82-6	0-25%
Sodium Tripolyphosphate	7758-29-4	1-3%
Sodium Lauryl Sulfoacetate	1847-58-1	0.1-1.0%

4. FIRST AID MEASURES

Description of first aid measures

General advice Under conditions of normal use, no hazards are anticipated which require special first aid

measures. Get medical attention if any symptoms develop or persist. Always have plenty of

water available for first aid.

Eye contact Not an expected route of exposure. Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek

immediate medical attention/advice.

Skin contactNot an expected route of exposure. Get medical attention if irritation develops and persists.

Inhalation Not an expected route of exposure. IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If continued difficulty with breathing is experienced, get

medical attention immediately.

Ingestion Do not ingest tablets or place them in mouth. Do not ingest or gargle solutions containing

denture cleanser. Read and follow all usage directions. IF SWALLOWED. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If

swallowed, call a poison control center or physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause eye irritation. Ingestion may cause damage to the

esophagus, abdominal pain, internal bleeding, breathing problems, seizures, bleaching of tissues, blood in the urine and vomiting. Chronic exposure may cause allergic reactions. Allergic reactions can occur with both proper and improper use of these cleaners. Symptoms of allergic reaction may include irritation, tissue damage, rash, hives, gum

tenderness, breathing problems, low blood pressure.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use copious amounts of water to extinguish fire.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

Dry product will react with water and effervesce. Wet product in tight containers may rupture. No significant hazard expected.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Physical form requires no specific personal protection when cleaning up spills. Wear dust

mask and gloves as appropriate.

Other Information Sweep up or vacuum. Collect material for disposal.

For emergency responders

Use personal protective equipment as required.

Environmental precautions

Environmental precautions Collect spillage. Not readily biodegradable. Product is not considered to be an

environmental hazard.

Methods and material for containment and cleaning up

Methods for containment Sweep up or vacuum. Collect material for disposal.

Methods for cleaning up Avoid creating dust. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

dust. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat. Protect from moisture.

Incompatible materials Water causes production of gaseous carbon dioxide and a slowly reactive hydrogen

peroxide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines OSHA PELs for Particulates Not Otherwise Regulated (PNOR):

15 mg/m³ TWA (total dust)

5 mg/m³ TWA (respirable fraction)

Appropriate engineering controls

Engineering Controls Ventilation systems. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear rubber gloves during industrial processing. Extended contact may cause skin

irritation.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved

respiratory protection should be worn.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Solid Powder

Appearance

Loose or compressed powder

Blue, blue/white, green/white or

Odor

Peppermint

Color

Odor threshold

Non Flammable

No information available

blue/green

Property

<u>Values</u> 6 - 9

Remarks • Method

pH (1-3% aqueous solution) Melting point/freezing point

Boiling point / boiling range Flash point **Evaporation rate**

Flammability (solid, gas) Flammability Limit in Air

Not applicable Not applicable

Not applicable

Not applicable

Not applicable

Upper flammability limit:

Not applicable

Lower flammability limit: Vapor pressure

Vapor density

Specific Gravity

Not applicable Not applicable Not applicable Not applicable Soluble in water

Water solubility Solubility in other solvents

No information available

Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity

Not applicable Not applicable Not applicable Not applicable Not applicable

Not applicable

Dynamic viscosity Explosive properties Oxidizing properties

Contains oxidizing compounds but in a form which reduces any hazard arising from their

presence

Other Information

Softening point Molecular weight Not applicable

VOC Content (%)

No information available Not applicable

Density Bulk density

Not applicable

0.9 g/cc

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stable under normal conditions of handling, use and transportation.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat. Water.

Incompatible materials

Water causes production of gaseous carbon dioxide and a slowly reactive hydrogen peroxide.

Hazardous Decomposition Products

Carbon dioxide (CO₂). Hydrogen peroxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information The product has not been tested. Toxicological testing has not been conducted for this

product overall. Available toxicological data for individual ingredients are summarized

below.

Inhalation Harmful by inhalation.

Eye contact Causes serious eye irritation.

Skin contact Prolonged contact may cause redness and irritation.

Ingestion Harmful if swallowed.

Chemical Name	Oral LD50	Dermai LD50	Inhalation LC50
Oxone 70693-62-8	= 1204 mg/kg (Rat)	> 11000 mg/kg(Rabbit)	> 14 mg/L (Rat)1 h
Sodium Perborate Monohydrate 10332-33-9	770 - 2100 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	-
Citric acid 77-92-9	= 3000 mg/kg(Rat)	-	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m³ (Rat) 2 h
Sodium sulfate 7757-82-6	> 10000 mg/kg(Rat)	-	-
Sodium Tripolyphosphate 7758-29-4	= 3100 mg/kg (Rat)	> 7940 mg/kg(Rabbit)	-
Sodium Lauryl Sulfoacetate 1847-58-1	= 700 mg/kg(Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Causes serious eye irritation. Irritation Irritating to eyes and skin. Corrosivity Not classified.

Sensitization No sensitization responses were observed.

Germ cell mutagenicity Not classified.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

Developmental Toxicity May damage fertility or the unborn child. Teratogenicity May cause harm to the unborn child.

STOT - single exposure Not classified. STOT - repeated exposure Not classified. Chronic toxicity No known effect. **Subchronic toxicity**

No known effect.

Target Organ Effects

No known effects under normal use conditions. Skin, Eyes, Reproductive System.

Neurological effects
Aspiration hazard

None known. Not applicable.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

The following table lists information related to aquatic toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Oxone 70693-62-8	-	32: 96 h Brachydanio rerio mg/L LC50 semi-static	5.3: 24 h Daphnia magna mg/L EC50
Citric acid 77-92-9	-	1516: 96 h Lepomis macrochirus mg/L LC50 static	120: 72 h Daphnia magna mg/L EC50
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Sodium sulfate 7757-82-6	-	13500 - 14500: 96 h Pimephales promelas mg/L LC50 6800: 96 h Pimephales promelas mg/L LC50 static 3040 - 4380: 96 h Lepomis macrochirus mg/L LC50 static 13500: 96 h Lepomis macrochirus mg/L LC50	2564: 48 h Daphnia magna mg/L EC50 630: 96 h Daphnia magna mg/L EC50
Sodium Tripolyphosphate 7758-29-4	-	1650: 48 h Leuciscus idus mg/L LC50	-

Persistence and degradability

Not readily biodegradable.

Bioaccumulation

Not readily biodegradable.

Mobility

Soluble in water.

Chemical Name		Partition coefficient	
	Citric acid	-1.72	
	77-92-9		

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Chemical Name	California Hazardous Waste Status	
Sodium carbonate	rbonate Corrosive	
497-19-8		

14. TRANSPORT INFORMATION

Note: This material is not subject to regulation as a hazardous material for shipping

DOT Not regulated.

TDG Not regulated.

MEX Not regulated.

ICAO (air) Not regulated.

IATA Not regulated.

IMDG Not regulated.

RID Not regulated.

ADR Not regulated. European requirement only. Not applicable in the Unites States.

ADN Not regulated. European requirement only. Not applicable in Unites States.

15. REGULATORY INFORMATION

International Inventories

TSCA All of the components of this product are listed on the US TSCA (Toxic Substances Control

Act) Inventory or are exempt.

DSL/NDSL All of the components of this product are listed on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium sulfate 7757-82-6	-	X	X
Sodium Tripolyphosphate 7758-29-4	-	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA

Health hazards 0

Flammability 0

Instability 0

Physical and Chemical

Properties -

<u>HMIS</u>

Health hazards 1

Flammability 0

Physical hazards 0

Personal protection E

Chronic Hazard Star Legend

* = Chronic Health Hazard

Prepared By

Regulatory compliance group

Issue Date

17-Dec-2014

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17-Dec-2014

Revision Note

No information available

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet