



## 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**

<b>Supplier Address</b>	<b>Manufacturer Address</b>	Tower Laboratories Ltd
Tower Laboratories Ltd		8 Industrial Park Road (PO Box 306)
8 Industrial Park Road (PO Box 306)		Centerbrook CT 06409
Centerbrook CT 06409		USA
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**

<b>Danger</b>
<b>Hazard statements</b>
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

<b>General advice</b>	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.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Not an expected route of exposure. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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

<b>Symptoms</b>	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

<b>Note to physicians</b>	Treat symptomatically.
---------------------------	------------------------

#### 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.



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

Issue Date 29-Dec-2014

Revision Date 29-Dec-2014

## 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/m<sup>3</sup> TWA (total dust)  
5 mg/m<sup>3</sup> 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).

<b>Skin and body protection</b>	Wear rubber gloves during industrial processing. Extended contact may cause skin irritation.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid Powder	<b>Odor</b>	Peppermint
<b>Appearance</b>	Loose or compressed powder	<b>Odor threshold</b>	No information available
<b>Color</b>	Blue, blue/white, green/white or blue/green		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH (1-3% aqueous solution)	6 - 9		
Melting point/freezing point	Not applicable		
Boiling point / boiling range	Not applicable		
Flash point	Not applicable		
Evaporation rate	Not applicable		
Flammability (solid, gas)	Not applicable		
Flammability Limit in Air		Non Flammable	
Upper flammability limit:	Not applicable		
Lower flammability limit:	Not applicable		
Vapor pressure	Not applicable		
Vapor density	Not applicable		
Specific Gravity	Not applicable		
Water solubility	Soluble in water		
Solubility in other solvents	No information available		
Partition coefficient	Not applicable		
Autoignition temperature	Not applicable		
Decomposition temperature	Not applicable		
Kinematic viscosity	Not applicable		
Dynamic viscosity	Not applicable		
Explosive properties	Not applicable		
Oxidizing properties	Contains oxidizing compounds but in a form which reduces any hazard arising from their presence		

### Other Information

Softening point	Not applicable
Molecular weight	No information available
VOC Content (%)	Not applicable
Density	Not applicable
Bulk density	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.

<b>Hazardous polymerization</b>	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 (CO<sub>2</sub>). Hydrogen peroxide.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Product Information</b>	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.
<b>Inhalation</b>	Harmful by inhalation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal 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/m <sup>3</sup> ( 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**

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Irritation</b>	Irritating to eyes and skin.
<b>Corrosivity</b>	Not classified.
<b>Sensitization</b>	No sensitization responses were observed.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	Product is or contains a chemical which is a known or suspected reproductive hazard.
<b>Developmental Toxicity</b>	May damage fertility or the unborn child.
<b>Teratogenicity</b>	May cause harm to the unborn child.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	No known effect.

<b>Subchronic toxicity</b>	No known effect.
<b>Target Organ Effects</b>	No known effects under normal use conditions. Skin, Eyes, Reproductive System.
<b>Neurological effects</b>	None known.
<b>Aspiration hazard</b>	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 77-92-9	-1.72

**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 497-19-8	Corrosive

**14. TRANSPORT INFORMATION**

<b>Note:</b>	This material is not subject to regulation as a hazardous material for shipping
<b><u>DOT</u></b>	Not regulated.
<b><u>TDG</u></b>	Not regulated.
<b><u>MEX</u></b>	Not regulated.
<b><u>ICAO (air)</u></b>	Not regulated.
<b><u>IATA</u></b>	Not regulated.
<b><u>IMDG</u></b>	Not regulated.
<b><u>RID</u></b>	Not regulated.
<b><u>ADR</u></b>	Not regulated. European requirement only. Not applicable in the Unites States.
<b><u>ADN</u></b>	Not regulated. European requirement only. Not applicable in Unites States.

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt.
<b>DSL/NDSL</b>	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

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### 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	-	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

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

<b>NFPA</b>	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection E
<i>Chronic Hazard Star Legend</i>	* = Chronic Health Hazard			

Prepared By Regulatory compliance group  
 Issue Date 17-Dec-2014  
 Revision Date 17-Dec-2014  
 Revision Note

No information available

**Disclaimer**

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