

Issue Date 2015-05-31

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Revision: R0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers

Product Name: DuraClean 2 Nightguard Cleaner

Recommended Use of the substance or mixture and Restrictions on Use

Intended Use: See Technical Data Sheet

Application Method: See Technical Data Sheet

Details of the Supplier of the Safety Data Sheet

Company Name: Astron Dental Corporation

Supplier Address: 815 Oakwood Road, Unit G
Lake Zurich, IL. 60047 (USA)

Email: customerservice@astrondental.com

Emergency Telephone Numbers

Company Phone Number: 800-323-4144 / 847-726-8787 (During Business Hours, 8:00am – 4:00pm CST)

Emergency Telephone: Infotrac: 800-535-5053

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Eye Dmg. 1; H318 Causes serious eye damage.
Skin Sens. 1; H317 May cause an allergic skin reaction
Skin Irrit. 2; H315 Causes skin irritation
Acute Tox. 4; H302 Harmful if swallowed

Label Elements

GHS Label Elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:



Warning



Corrosive

Signal Word: Danger

Hazards Statements

H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

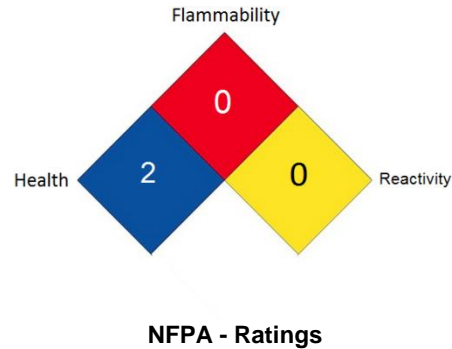
Precautionary Statements – Prevention, Response, Disposal

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.
P301+P312 IF ON SKIN: Wash with plenty of water.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove
+P338 contact lenses if present and easy to do. Continue rinsing.

P310	Immediately call a POISON CENTER/doctor
P321	Specific treatment (see information on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or a rash occurs: Get medical advice / attention.
P362+P364	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents / container in accordance with local / federal regulations.

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

HMIS - Ratings (scale 0-4)



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components:

CAS No.	Description	% Range	GHS-US Classification
CAS: 7758-29-4	Pentasodium triphosphate	15-40%	
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate	10-30%	Eye Dam. 1, H318 Acute Tox. 4, H302
CAS: 497-19-8	Sodium Carbonate	7-13%	Eye Irrit. 2, H319
CAS: NA	Surfactants	7-13%	Skin Irrit. 2, H315; Eye Irrit. 2A,;H319
CAS: 151-21-3	Sodium lauryl sulfate	1-5%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317 STOT SE 3; H335

4. FIRST AID MEASURES

Description of first aid measures

General:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation:

If having difficulty breathing, contact emergency personnel immediately. Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient securely on side position for transportation.

Skin: Remove contaminated clothing. Wash clothing before reuse. Wash with soap and water. If irritation occurs consult a doctor. Immediately wash with water and soap and rinse thoroughly.

Eyes: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Seek medical treatment. Rinse opened eye for several minutes under running water. Then consult doctor.

Ingestion: Induce vomiting and call for medical help. Never give anything by mouth to an unconscious person. Immediately call a doctor.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Information for doctor: This product contains sodium carbonate at low concentrations. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for Fire-Fighters

Protective equipment:

Full protective clothing and self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Refer to Section 8.

Environmental Precautions:

Do not allow to enter sewers/surface or ground water.

Methods and Material for Containment and Cleaning up:

Dispose contaminated material as waste according to Section 13

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with skin, eyes and clothing.

Information about precautions against explosions and fires:

No special measures required.

Conditions for Safe Storage, including and incompatibilities:

Storage

Requirements to be met by storerooms and receptacles:

Keep container tightly closed. Store in a well ventilated place. Store in a cool, dry place.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Use plastics or stainless steel for suitable packaging.

Precautions for safe handling:

Avoid contact with skin, eyes and clothing.

Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see Section 7.

Control Parameters**Components with occupational exposure limits:**

Federal guidelines suggest treating the ingredient in this product as a nuisance dust, as no product specific guidelines have been issued for exposure.

Particulates not otherwise regulated: OSHA (PEL/TWA): 15 mg/m³ (total dust); 5 mg/m³ (resp fraction)

Additional Information: The lists that were valid during the creation were used as basis.

Exposure Controls**Personal Protective Equipment:****General Protective and Hygienic Measures:**

Keep away from tobacco products. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

Breathing Equipment: Not Required.

Protection of Hands:

Protective Gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

Material Gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of the glove material: The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye Protection: Have a safety shower and eyewash fountain readily available in the immediate work area. Tightly sealed goggles.

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline powder
Color	Blue
Odor	No significant odor
Odor Threshold	Not Determined
pH	9.5
Melting Point / Freezing Point	Not Determined
Initial boiling point and boiling range	101 °C(214 °F)
Flash Point	Not Applicable
Evaporation Rate (Ether=1)	Not Applicable
Flammability (solid, gas)	Not Determined
Danger of Explosion	Product does not present an explosion hazard
Upper/lower Flammability or Explosive Limits	Not Determined
Vapor Pressure (Pa)	Not Applicable
Vapor Density	Not Determined
Density	Not Determined
Relative Density	Not Determined

Evaporation Rate	Not Applicable
Solubility in / Miscibility with Water	<10%
Partition Coefficient (n-octanol/water)	Not Determine
Viscosity (Dynamic)	Not Applicable
Viscosity (Kinematic)	Not Applicable
Specific Gravity	1.25
Auto-Ignition Temperature	Product is not self igniting
Decomposition Temperature	Not Determined
Organic Solvents	0.0%
Solids Content	100.0%
Other Information	No further relevant information available

10. STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical Stability: Product is stable under normal conditions.

Thermal Decomposition / Conditions to be avoided: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Conditions to avoid: Avoid strong oxidizing agents, aluminum, heat, moisture, and other incompatible materials as stated above.

Incompatible materials: Avoid oxidizing agents and acids. Avoid contact with bare aluminum. Flammable hydrogen gas may be produced in contact with bare aluminum. Sodium carbonate reacts with fluorine, aluminum, phosphorus pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene and reacts violently with acid to form carbon dioxide.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD/LC50 values those are relevant for classification

Pentasodium triphosphate (CAS: 7758-29-4)

LD50 oral rate

Primary Irritant Effect

On the skin: Irritant to skin and mucous membranes.

On the eyes: Strong irritant with the danger of severe eye injury.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information: The product shows the following dangers to internally approved calculation methods for preparations: Harmful, Irritant

Carcinogenic Categories

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca(Occupational Safety & Health Administration): None of the ingredients is listed.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity: Toxic to aquatic life.

-Persistence and Degradability: No further relevant information available.

-Bioaccumulative Potential: No further relevant information available.

-Mobility in Soil: No further relevant information available.

Additional ecological Information

General Notes:

-Water hazard class 2 (Self-Assessment): Hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment**PBT:** Not applicable**vPvB:** Not applicable**Other adverse effects:** No further relevant information available.**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods****Waste Disposal Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Un-cleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. TRANSPORT INFORMATION

UN-Number	
DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Non-Regulated
Packing group	
DOT, ADR, ADN, IMDG, IATA	Non-Regulated
Environment hazard:	
Marine pollutant:	No
Special precautions for user	Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation": Not applicable

15. REGULATORY INFORMATION**Safety, Health and environmental regulations/legislation specific for the substance or mixture****Sara****Section 355 (extremely hazardous substances):** None of the ingredients is listed.**Section 313 (Specific toxic chemical listings):**

CAS: 7758-29-4 Pentasodium triphosphate

TSCA (Toxic Substances Control Act):

CAS: 7758-29-4 Pentasodium triphosphate

CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate

CAS: 497-19-8 Sodium carbonate

CAS: 151-21-3 Sodium lauryl sulfate

Proposition 65

Chemicals known to cause cancer :

Chemicals known to cause reproductive toxicity for females:

Chemicals known to cause reproductive toxicity for males:

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

None of the ingredients is listed

None of the ingredients is listed

None of the ingredients is listed

Carcinogenic Categories:

EPA (Environmental Protection Agency)
 TLV (Threshold Limit Value established by ACGIH)
 NIOSH-Ca (National Institute for Occupational Safety and Health)
 GHS label elements

None of the ingredients is listed
 None of the ingredients is listed
 None of the ingredients is listed
 The product is classified and labeled according to the Global Harmonized System (GHS)

Hazard Pictograms:**Warning****Corrosive****Signal Word:** Danger**Hazard-determining components of labeling:**

Tetrasodium ethylenediaminetetraacetate
 Sodium lauryl sulfate

Hazard Statements

Harmful if swallowed
 Causes skin irritation
 May cause an allergic skin reaction.
 Causes serious eye damage.

Precautionary Statements

Avoid breathing dust / fume / gas / mist / vapors / spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves / eye protection / face protection.
 IF ON SKIN: Wash with plenty of water.
 IF ON SKIN: Wash with plenty of soap and water.
 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/doctor
 Specific treatment (see information on this label).
 Rinse mouth.
 If skin irritation or a rash occurs: Get medical advice / attention.
 Take off contaminated clothing and wash before reuse.
 Wash contaminated clothing before reuse.
 Dispose of contents / container in accordance with local / federal regulations.

National Regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know

CAS No.	Description	% Range	GHS-US Classification
CAS: 7758-29-4	Pentasodium triphosphate	15-40%	
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate	10-30%	Eye Dam. 1, H318 Acute Tox. 4, H302
CAS: 497-19-8	Sodium Carbonate	7-13%	Eye Irrit. 2, H319
CAS: NA	Surfactants	7-13%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; H319
CAS: 151-21-3	Sodium lauryl sulfate	1-5%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335

All ingredients are listed.

Chemicals safety assessments: A Chemical Safety Assessment has not been carried out.

16. Other Information**Abbreviations and acronyms:**

ADR:	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Substances)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
LC50:	Lethal Concentration, 50 percent
LD50:	Lethal Dose, 50 percent
Acute Tox. 4:	Acute Toxicity, Hazard Category 4
Skin Irrit. 2:	Skin corrosion/Irritation
Eye Dam. 1:	Serious eye damage/eye irritation
Eye Irrit. 2:	Serious eye damage/eye irritation
Eye Irrit. 2A:	Serious eye damage/eye irritation
Skin Sens. 1:	Sensitization – Skin
STOT SE 3:	Specific target organ toxicity – Single exposure

This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.