

# SAFETY DATA SHEET

## 1. Identification of Substance and Manufacturer

**Precision Ultrasonic Cleaning Solution Concentrate for Orthodontic Instruments.**

**Use: Ultrasonic Cleaning Solution diluted 1 part to 40 parts of water.**

**Publication Date: 10/7/2015**

**Distributor: Precision, 14175 Television Avenue, Chino California, 91710 USA, 1-800-299-9060**

**For emergencies involving a spill, leak, fire or accident contact**

**CHEMTREC 800-424-9300 within the United States or (01) 703-527-3887 (USA) for International collect calls.**

## 2. HAZARDS IDENTIFICATION



**WARNING! IRRITANT. MAY BE HARMFUL IF SWALLOWED.**

**A: WARNING STATEMENT:** Good industrial hygiene practices should be used when handling this material.

**Acute Eyes:** Direct contact causes irritation, redness and possible tearing.

**Acute Skin:** Prolonged or repeated contact causes redness, and drying of the skin.

**Acute Inhalation:** Breathing high concentrations of vapors or mists may cause irritation to the nose and throat.

**Acute Ingestion:** Will cause irritation to the digestive tract and signs of nervous system depression

**B: POTENTIAL HEALTH EFFECTS:**

**Chronic Effects:** This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS, Product is concentrate to be diluted with 40 parts of water

Component	CAS Number	Percentage
Water	7732-18-5	60 – 90
Nonionic Surfactant	68412-54-4	4 - 10
Sodium Gluconate	527-07-1	0.2-4
Sodium Bicarbonate	144-55-8	1 – 5
Sodium Xylene Sulfonate	1300-72-7	1 - 5
Propylene Glycol	57-55-6	0.5-4
Monoethanolamine	141-43-5	0.01-0.4
Dodecanedioic acid	111-20-6	0.01-0.5

The exact concentration has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**Eye Exposure:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

**Skin Exposure:** Wash thoroughly with water. If irritation or redness develops, seek medical attention.

**Inhalation:** If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

**Ingestion:** Seek immediate medical attention. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Skin contact may aggravate existing skin disease.

## 5. FIRE FIGHTING MEASURES

**FIRE HAZARD DATA:** NOT COMBUSTIBLE

**Suitable Extinguishing Media:** Extinguish fire in area with dry chemical, CO<sub>2</sub> or a BC/ABC extinguisher.

**Special Fire Fighting Procedures:** None known

**Unusual Fire and Explosion Hazards:** Closed containers may explode due to build up of pressure when exposed to extreme heat.

**Hazardous Decomposition Materials:** Under fire conditions, oxides of nitrogen, carbon and sulfur.

## 6. ACCIDENTAL RELEASE MEASURES

**Cleanup and Disposal of Spill:** Mop up spill and dispose of by dilution to a sanitary sewer system as permitted by local, state and federal regulations.

**Regulatory Reporting:** Not required

## 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperatures:** 39 to 100 ° F. Protect from freezing

**HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**General:** These recommendations provide general guidance for handling of this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

**Exposure Guidelines:** Exposure limits are recommended worker breathing limits. The following limits apply to this material:

**INGREDIENTS**

Water  
 Nonionic Surfactant  
 Sodium Gluconate  
 Sodium Bicarbonate

**LIMITS**

None established  
 None established  
 None established  
 None established

**INGREDIENTS**

Sodium Xylene Sulfonate  
 Propylene Glycol  
 Monoethanolamine  
 Dodecanedioic acid

**LIMITS**

None established  
 AIHA TWA 10mg/m3  
 OSHA/PEL TWA 3 ppm  
 None established

**Engineering Controls:** Normal room ventilation.

**Respiratory Controls:** For reasonable uses of this material, respiratory protection should not be necessary.

**Eye/Face Protection:** Safety glasses to protect from splashing.

**Skin Protection:** Rubber or plastic gloves to avoid drying and irritation to the skin.

**Work Practice Control:** Normal hygiene in the work area should be taken when working with or handling this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** liquid

**pH:** 8.4 as concentrate

**Water Solubility:** Soluble

**Freezing Point Range:** < 32 °F

**Vapor Pressure:** Not established

**Flash Point:** None to boiling

**Flammability limits (vol/vol %): Lower:** No Data **Upper:** No Data

**Percent volatile by volume:** approximately 87 % by volume

< 0.0125 lbs/gal or < 0.14 gm/l.

**Color:** Very Pale Yellow

**Specific Gravity:** 1.03

**Melting Point Range:** Not available

**Boiling Point:** approximately 205°F

**Vapor Density:** Not established

**Method:** Tag Closed

**V.O.C. for concentrate (calculated) :** < 0.05 lbs/gal or < 5.53 gm/l. , VOC for dilution (1:40)

**Odor:** Characteristic Mild Odor

**Odor Threshold:** Not available

**Evaporation Rate:** Similar to water

**Partition Coefficient; n-octanol / water:** Not available

**Decomposition Temperature:** Not available

**Auto Ignition Temperature:** Not available

**Turns slightly hazy at 45°F**

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Conditions to be avoided:** Heat and freezing.

**Materials/Chemicals to be avoided:** Unknown

**Decomposition Type: Thermal:** Oxides of carbon, nitrogen and sulfur.

**Possibility of Hazardous Reactions: WILL NOT OCCUR**

**11. TOXICOLOGICAL INFORMATION**

**Acute Eye Irritation:** Irritating to eyes.

**Acute Skin Irritation:** Irritating to skin.

**Acute Dermal Toxicity:** No test data found for product.

**Acute Respiratory Irritation:** No test data found for product.

**Acute Inhalation Toxicity:** No test data found for product.

**Acute Oral Toxicity**

**LD50 (rat):** Nonionic Surfactant = 1310 mg/kg, **LD50 (rabbit) (intravenous):** 7680 mg/kg for Sodium Gluconate

**LD 50 (mouse):** 3360 mg/kg for Sodium Bicarbonate **LD50: 2500 mg/kg (Rat) for Sodium Xylene Sulfonate**

**LD50 (rat) 3400 mg kg<sup>-1</sup> Dodecanedioic acid** **LD50 (rat) = 1720 mg/kg for monoethanolamine**

**LD50 (rabbit) = 18500 mg/kg for propylene glycol**

**Chronic Toxicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC OR

ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information:** No data found.

**13. DISPOSAL CONSIDERATIONS**

This product can be disposed in sanitary sewer system where permitted by local, federal and state regulations.

**14. TRANSPORTATION INFORMATION**

This product is not regulated for transportation. Do not stack cartons more than five high.

**15. REGULATORY INFORMATION**

Inventory Issues: All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS/ELINS chemical listings

**16. OTHER INFORMATION**

**National Fire Protection Association**

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

2

0

0

--

**Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made.**

This Precision Ultrasonic Cleaning Solution Concentrate for Orthodontic Instruments SDS is given in good faith, but no warranty expressed or implied is made.