

## Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**Product Name:** Dura Conditioner Liquid

**Company Identification:**

Reliance Dental Mfg., Co.  
5805 W. 117<sup>th</sup> Place  
P.O. Box 38  
Worth, IL 60482

**For Product Information, call:** 708-597-6694 **For Medical Information, call:** 800-535-5053

### Section 2 - Composition, Information on Ingredients

Item	Chemical Name	CAS #	WT/WT%
01	2-Ethylhexyl Diphenyl Phosphate	1241-94-7	90-95%
02	Bis(2-Ethylhexyl) Phenyl Phosphate	16368-97-1	5-10%
03	Triphenyl Phosphate	115-86-6	1-5%

### Section 3 - Hazards Identification

**EMERGENCY OVERVIEW:**

Caution

May cause respiratory tract, eye and skin irritation.

**Color:** Colorless      **Physical state:** Liquid      **Odor:** Odorless

**NFPA 704**      **Health:** 1      **Fire:** 1      **Instability:** 0

**Potential Health Effects:**

**Principle routes of exposure:** Inhalation, ingestion, skin and eye contact.

**Eye:** May cause slight irritation.

**Skin** May cause irritation.

**Inhalation:** May cause irritation of respiratory tract. Elevated processing temperatures may release toxic vapors that are harmful if inhaled.

**Ingestion:** May irritate digestive tract.

### Section 4 - First Aid Measures

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.

**Skin Contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops.

**Inhalation:** Move to fresh air. IF breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion:** Drink plenty of water. Do not induce vomiting. Get medical attention if irritation develops.

## Section 5 - Fire Fighting Measures

<b>FLASH POINT:</b>	223 °C, 433 °F
<b>METHOD:</b>	COC
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Use dry chemical, CO2, water spray or "alcohol" foam.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Oxides of phosphorus.
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:</b>	As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.
<b>UNUSUAL HAZARDS:</b>	None known.

## Section 6 - Accidental Release Measures

<b>Personal Precautions:</b>	Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent mater (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Dispose of promptly. Clean contaminated surface thoroughly.

## Section 7 - Handling and Storage

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Controls, Personal Protection

<b>Components</b>		<b>OSHA</b>	<b>ACGIH</b>
01	2-Ethylhexyl Diphenyl Phosphate	Not Established	Not Established
02	Bis(2-Ethylhexyl) Phenyl Phosphate	Not Established	Not Established
03	Triphenyl Phosphate	3 mg/m3 TWA	3 mg/m3 TWA
<b>Engineering measures:</b>		Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are proximal to the work-station location.	
<b>Eye Protection:</b>		Safety glasses with side-shields.	
<b>Skin and Body Protection:</b>		Lightweight protective clothing. Wear chemically protective gloves, lav coat or apron to prevent prolonged or repeated skin contact.	
<b>Hand Protection:</b>		Impervious gloves.	
<b>Respiratory Protection:</b>		Use NIOSH approved respirator when ventilation is inadequate.	
<b>Hygiene Measures:</b>		Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.	

## Section 9 - Physical and Chemical Properties

<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Physical State:</b>	Liquid
<b>pH:</b>	No Data Available
<b>Molecular Weight:</b>	No Data Available
<b>BOILING POINT:</b>	239.0 @ 13hPa; 375°C @ 1.013hPa
<b>Melting Point/Range:</b>	No Data Available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.089
<b>Vapor Pressure:</b>	0.26 hPa @ 150°C
<b>Evaporation Rate (H<sub>2</sub>O=1):</b>	< 1.00
<b>Water Solubility (mg/l):</b>	0.31
<b>Partition Coefficient:</b>	5.3x10 exp5
<b>VOC Content (%):</b>	2.50 %
<b>Viscosity (cP):</b>	16.4 mPa.s @ 25°C
<b>Refractive Index:</b>	1.508-1.512 @ 20°C

## Section 10 - Stability and Reactivity

<b>Stability:</b>	Stable at normal conditions.
<b>Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition products:</b>	None under normal use.
<b>Materials to Avoid:</b>	None Known.
<b>Conditions to avoid:</b>	None known.

## Section 11 - Toxicological Information

### Acute Toxicity:

**Carcinogenic Effects:** Not listed by IARC, NT or OSHA as a carcinogen.

**Component Information:** Component information, if any, is listed below

#### 2-Ethylhexyl Diphenyl Phosphate

**LD50s and LC50s:** Oral LD50 Rat: > 15800 mg/kg; Dermal LD50 Rabbit: > 7940 mg/kg

#### Bis(2-Ethylhexyl) Phenyl Phosphate

**LD50s and LC50s:** Oral LD50 Mouse: 9333 mg/kg

#### Triphenyl Phosphate

**LD50s and LC50s:** Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: > 7900 mg/kg

## Section 12 - Ecological Information

**AQUATIC TOXICITY:** Information given is based on data on the components and the ecotoxicology of similar products.

## 2-Ethylhexyl Diphenyl Phosphate

Ecotoxicity -Fish Species Data:>0.38 mg/L LC50 Lepomis marchers 96 h>0.38 mg/L LC50 Oncorhynchus mykiss 96 h  
> 0.38 mg/L LC50 Pimephales promelas 96 hEcotoxicity - Water Flea Data: = 0.15 mg/L EC50 Daphnia Magna 48 h  
Ecotoxicity - Freshwater Algae Data: = 0.2 mg/L EC50 Selenastrum capricornutum 72 h

## Triphenyl Phosphate

Ecotoxicity -Fish Species Data:>0.3 mg/L LC50 Oncorhynchus mykiss 96 h=0.66 mg/L LC50 Pimephales promelas 96 h  
=0.78 mg/L LC50 Lepomis marchers 96 h= 0.87 mg/L LC50 Pimephales promelas 96 h = 1.2 mg/L LC50 Oryzias latipes  
96 h=290.0 mg/L LC50 Lepomis marchers 96 h Ecotoxicity - Water Flea Data: = 1.0 mg/L EC50 water flea 48 h  
Ecotoxicity - Freshwater Algae Data: = 2.0 mg/L EC50 freshwater algae 96 h

**Persistence and Degradability:** Not determined.

### Section 13 - Disposal Considerations

**Waste from residues / unused products:** Waste must be disposed of in accordance with Federal, State and Local regulations. Where possible recycling is preferred to disposal or incineration.

### Section 14 - Transport Information

**DOT (U.S.)**  
**UN/ID No.:** UN3082  
**Proper Shipping Name:** Environmentally hazardous substances, liquid, n.o.s.(Triphenyl Phosphate)  
**U.S. DOT- Hazard Class:** 9  
**Packing group:** III

**Triphenyl Phosphate (1-5%)** DOT Severe Marine Pollutants: Listed

**Other shipping information:** This material meets the definition of a severe marine pollutant. Applies to containers for shipments in bulk or via water transportation.  
**Do not apply this DOT severe marine pollutant information to any ground mode less than 119 gallons.**

**TDG (Canada),**  
**UN/ID No.:** UN3082  
**Proper Shipping Name:** Environmentally hazardous substances, liquid, n.o.s.(Triphenyl Phosphate)  
**Class:** 9  
**Packing group:** III

### Section 15 - Regulatory Information

#### U.S. REGULATIONS:

Not subject to the provisions of SARA 313 Title III

Not subject to TSCA 12(b) Export Notification

**FDA:** 21 CFR 175.105, 176.170, 176.180, 175.300, 175.320, 175.380, 175.390, 177.1210, 181.27 Subject to provisions of these regulations. The final formulator is responsible for complying with any limitations listed in specific sections.

**STATE REGULATIONS:** This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any are listed below.

**Components**  
Triphenyl Phosphate

**State Regulations - NJ; PA; CA Prop65**  
Listed (NJRTK)      Listed (PARTK)

**Canadian WHMIS**  
**WHMIS Hazard Class:**

D2B Toxic Materials.

**Components**  
Triphenyl Phosphate

**WHMIS Ingredient Disclosure**  
1 %

## Section 16 - Additional Information

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH:	1
Fire:	1
Physical Hazard:	0

### ABBREVIATIONS:

NA:	Not Applicable	ND:	Not Determined	NE:	Not Established
ppm:	parts per million	G:	Gallon	mg:	Milligram
L:	Liter	gm:	Gram	mol:	Mole
kg:	Kilogram	μ:	Micro	mm:	Millimeter p Pico
Pa:	Pascals	LC:	Lethal Concentration	LD:	Lethal Dose
TC:	Toxic Concentration	TD:	Toxic Dose	BOD:	Biological Oxygen Demand
COD:	Chemical Oxygen Demand			Lo:	Lowest
ThOD:	Theoretical Oxygen Demand			Tlm:	Threshold Limit
H:	Hours	M:	Months	D:	Days
Y:	Years	W:	Weeks		

ACGIH:	American Conference of Governmental Industrial Hygienist
CPR:	Controlled Product's Regulation
DSL:	Canadian Domestic Substances List
NDSL:	Canadian Non-domestic Substance List
IARC:	International Agency for Research for Cancer
NOEL:	No Observed Effect Level
NOAEL:	No Observed Adverse Effect Level
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
TLV:	Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.