

SAFETY DATA SHEET

ULTRADENT[®]
PRODUCTS, INC.

Date Issued: 01/20/2006
MSDS No: 5-001.6
Date-Revised: 10/02/2007
Revision No: 6

Silane

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Silane

PRODUCT DESCRIPTION: Bonding agent

MANUFACTURER

Ultradent Products, Inc.
505 W. 10200 S.
South Jordan UT 84095

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (NORTH AMERICA) :(800) 424 - 9300
(INTERNATIONAL) :(703) 527 - 3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS	Classification	Content
Methacryloxy propyl trimethoxy silane	07803-62-5	232-263-4	F+; R-12/17	5 - 15
Isopropyl Alcohol	000067-63-0	200-661-7	F+; R-11	92

3. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"F+" - Extremely flammable
R11: Highly flammable.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: May cause slight irritation.

INGESTION: Irritating to mouth, throat and stomach.

INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Repeated or prolonged use, may cause irritation.

PHYSICAL HAZARDS: Flammable Liquid

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Give large volumes of water. Do not induce vomiting. Consult a physician if ingested in large amounts.

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5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES: General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

FIRE FIGHTING EQUIPMENT: Foam, dry chemical, carbon dioxide (CO₂)

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wipe up small amounts with chemical resistant or damp rag which is washed with large amounts of water after each use. After cleaning, flush away traces with water.

LARGE SPILL: Collect in tightly closed containers.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow to enter sewers or drains that may lead to waterways.

SPECIAL PROTECTIVE EQUIPMENT: S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

COMMENTS: Refer particularly to local circumstances and regulations.

7. HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks and flame.

STORAGE: S3/9: Keep in a cool, well ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: S36/37: Wear suitable protective clothing and gloves.

RESPIRATORY: S51: Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Volatile Liquid

ODOR: Rubbing alcohol

COLOR: Colorless

PHYSICAL STATE COMMENTS: Soluble in water

BOILING POINT: 82°C

MELTING POINT: -89°C

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SOLUBILITY IN WATER: Fully miscible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatibles.

HAZARDOUS DECOMPOSITION PRODUCTS: Complete combustion generates carbon dioxide. Incomplete combustion generates toxic and highly flammable carbon monoxide.

INCOMPATIBLE MATERIALS: Strong oxidizers, acids, and Isocyanates

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Severe eye irritation

SKIN EFFECTS: Repeated or prolonged use, may cause irritation.

REPRODUCTIVE EFFECTS: None

MUTAGENICITY: None

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: None Expected.

DISTRIBUTION: Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in compliance with governmental regulation (EC 1975L0442-20/11/2003)

14. TRANSPORT INFORMATION

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Alcohols, n.o.s. (Isopropyl alcohol mixture)

HAZARD CLASS: 3

PACKING GROUP: II

LABEL: Flammable Liquid

AIR (ICAO/IATA)

SHIPPING NAME: Alcohols, n.o.s. (Isopropyl alcohol mixture)

UN/NA NUMBER: 1987

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

LABEL: Flammable Liquid

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VESSEL (IMO/IMDG)

SHIPPING NAME: Alcohols, n.o.s. (Isopropyl alcohol mixture)

UN/NA NUMBER: 1987

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

LIMITED QUANTITY: 1L

LABEL: Flammable Liquid

15. REGULATORY INFORMATION

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"F+" - Extremely flammable
R11: Highly flammable.

16. OTHER INFORMATION

PREPARED BY: Iris McCallister

REVISION SUMMARY: Revision #: 6 This MSDS replaces the February 08, 2007 MSDS. Any changes in information are as follows: In Section 1 MSDS Number CHEMTREC MSDS In Section 14 DOT Proper Shipping Name DOT UN/NA Number IMO Proper Shipping Name AIR Proper Shipping Name IMO UN/NA Number AIR UN/NA Number TDG UN/NA Number TDG Proper Shipping Name ADRSHPNAME Not Found

MANUFACTURER DISCLAIMER: FOR DENTAL USE ONLY: Use as directed.

The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate; however, Ultradent Products, Inc., makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.