



# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Trade Name** Gentoo – Part A

**SDS Date** March 31, 2017

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Use:** Coating material. This product is one part of a two part product. Read and understand the hazard information on the SDS for Part B before using this product.

**Uses Advised Against:** For professional use only.

### 1.3 Details of the Supplier of the Substance or Mixture

**Manufacturer:** ULTRATECH INTERNATIONAL, INC.  
11542 Davis Creek Court  
Jacksonville, FL 32256  
+1 (904) 292-1611  
Email: [info@gentoo coating.com](mailto:info@gentoo coating.com)

**EU Distributor:**

### 1.4 Emergency Telephone Number

**Emergency Spill Information** 800-424-9300 (Chemtrec) +1-703-527-3887 for International Calls (collect calls accepted)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Physical	Health	Environmental
Flammable Liquid Category 2	Eye Irritation Category 2A Skin Sensitization Category 1 Specific Target Organ Toxicity – Single Exposure 3	Not Hazardous

### 2.2 Label Elements



**Danger!**



## SAFETY DATA SHEET

Contains: 2-Propanol, Proprietary Polyurethane Silane, Tetraethoxysilane, and Acetylacetone

Hazard Phrases	Precautionary Phrases
<p>H225 Highly flammable liquid and vapor.  H317 May cause an allergic skin reaction  H319 Causes serious eye irritation.  H336 May cause drowsiness or dizziness.</p> <p><b>Precautionary Phrases Continued</b>  <b>Response</b>  P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  P333 + P313 If skin irritation or rash occurs: Get medical attention.  P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P312 Call a POISON CENTER or doctor if you feel unwell.  P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P337 + P313 If eye irritation persists: Get medical attention.  P363 Wash contaminated clothing before reuse.  P370 + P378 In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.</p>	<p><b>Prevention</b>  P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.  P233 Keep container tightly closed.  P240 Ground and bond container and receiving equipment  P241 Use explosion-proof electrical, ventilating and lighting equipment.</p> <p><b>Prevention Continued</b>  P242 Use only non-sparking tools.  P243 Take precautionary measures against static discharge.  P261 Avoid breathing mist, vapors or spray.  P264 Wash thoroughly after handling.  P271 Use only outdoors or in a well-ventilated area.  P272 Contaminated work clothing must not be allowed out of the workplace.  P280 Wear protective gloves, eye protection, and face protection.</p> <p><b>Storage</b>  P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.</p> <p><b>Disposal</b>  P501 Dispose of contents and container in accordance with local and national regulations.</p>

### 2.3 Other Hazards: None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	CLP/GHS Classification (1272/2008)
2-Propanol	67-63-0 / 200-661-7	45-60	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336)
Proprietary Polyurethane Silane	Proprietary / Proprietary	30-45	Flam. Liq. 4 (H227), Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Sens. 1 (H317)
Tetraethoxysilane	78-10-4 / 201-083-8	8-15	Flam. Liq. 3 (H226), Eye Irrit. 2 (H319),



## SAFETY DATA SHEET

Acetylacetone	123-54-6 / 204-634-0	<1	STOT SE 3 (H335), Oral Tox. 4 (H302) Flam. Liq. 3 (H226), STOT SE 3 (H335), Skin Sens. 1 (H317), Oral Tox. 4 (H302), Dermal Tox. 3 (H311), Inhalation Tox. 3 (H331)
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See Section 16 for full text of GHS Classifications.

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. Get medical attention if symptoms appear and persist.

**Skin contact:** Wash skin with soap and water. If irritation or rash develops, get medical attention.

**Eye contact:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes eye irritation. May cause mild skin irritation. May cause an allergic skin reaction in some individuals. Inhalation of mists or vapors may cause upper respiratory tract irritation and may cause drowsiness or dizziness. Ingestion may cause gastrointestinal distress. Ingesting large amounts may be harmful.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not generally required.

### SECTION 5: FIREFIGHTING MEASURES

**5.1 Extinguishing Media:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.

**5.2 Special Hazards Arising from the Substance or Mixture:** Highly flammable liquid and vapor. Vapors may accumulate in confined areas and present a fire or explosion hazard. Vapors may be heavier than air and travel along surfaces to remote ignition sources and flash back. Closed containers may rupture if exposed to extreme heat. Use water spray to cool containers. Burning may produce carbon oxides, silicon oxides, hydrogen fluoride (HF) and carbonyl fluoride (COF<sub>2</sub>).

**5.3 Advice for Fire-Fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Caution – slip hazard. Eliminate all ignition sources and ventilate the area with explosion-proof equipment. Wear appropriate protective clothing and equipment as described in Section 8.



## SAFETY DATA SHEET

**6.2 Environmental Precautions:** Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

**6.3 Methods and Material for Containment and Cleaning Up:** Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard.

**6.4 Reference to Other Sections:**

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

### SECTION 7: HANDLING and STORAGE

**7.1 Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product and vapor away from heat, sparks, flames and all other sources of ignition.

Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers. Do not cut, drill, weld, braze, etc. on or near containers, even empty containers.

This product is one part of a two part product. Read and understand the hazard information on the SDS for Part B before using this product. Use in accordance with product instructions.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, well-ventilated area. Protect containers from physical damage. Store away from strong oxidizers, high temperatures, and ignition sources.

**7.3 Specific end use(s):**

**Industrial uses:** Coating material

**Professional uses:** Coating material

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:** Refer to local regulations for exposure limits listed below.

Chemical Name	US OEL	EU IOEL	German Limits	UK Limits
2-Propanol	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV	None Established	200 ppm TWA, 400 ppm STEL	400 ppm TWA, 500 ppm STEL
Proprietary Polyurethane Silane	None Established	None Established	None Established	None Established
Tetraethoxysilane	10 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV	None Established	10 ppm TWA, 10 ppm STEL	10 ppm TWA, 30 ppm STEL
Acetylacetone	25 ppm TWA ACGIH TLV (skin)	None Established	20 ppm TWA, 40 ppm STEL	None Established



## SAFETY DATA SHEET

### 8.2 Exposure Controls:

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to minimize exposures levels.

#### Personal Protective Measures

**Respiratory protection:** For operations where the exposure limits are exceeded, a NIOSH or local authority approved respirator with an organic vapor cartridge or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with local regulations and good Industrial Hygiene practice. For firefighting, use self-contained breathing apparatus.

**Skin protection:** Wear impervious gloves to avoid skin contact.

**Eye protection:** Wear safety glasses or goggles to avoid eye contact.

**Other:** None known.

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties

**Appearance (physical state, color, etc.):** Clear amber liquid.

**Odor:** Alcohol like odor.

<b>Odor threshold:</b> Not determined.	<b>pH:</b> Not applicable
<b>Melting point/freezing point:</b> Not determined.	<b>Boiling Point:</b> 181.4°F (83°C)
<b>Flash point:</b> 54°F (12°C)	<b>Evaporation rate ( butyl acetate =1):</b> Not determined
<b>Flammability (solid, gas):</b> Not applicable	<b>VOC (Wt./Gal) wet:</b> Not determined
<b>Flammable limits: LEL:</b> 1%	<b>UEL:</b> 12%
<b>Vapor pressure:</b> Not determined.	<b>Vapor density:</b> Not determined
<b>Relative density:</b> 0.898	<b>Solubility(ies):</b> Not determined
<b>Partition coefficient: n-octanol/water:</b> Not determined.	<b>Auto-ignition temperature:</b> 750.2°F (399°C)
<b>Decomposition temperature:</b> Not determined	<b>Viscosity:</b> 3.92
<b>Explosive Properties:</b> Not applicable	<b>Oxidizing Properties:</b> Not oxidizing

**9.2 Other Information:** None available

## SECTION 10: STABILITY and REACTIVITY

**10.1 Reactivity:** Not reactive.

**10.2 Chemical Stability:** Stable.

**10.3 Possibility of Hazardous Reactions:** None known.

**10.4 Conditions to Avoid:** Heat, flames and sparks. Extremes of temperature and direct sunlight.

**10.5 Incompatible Materials:** Strong oxidizers and acids.



## SAFETY DATA SHEET

**10.6 Hazardous Decomposition Products:** Fluoropolymers will degrade upon prolonged heating or in a fire, liberating hydrogen fluoride (HF) and carbonyl fluoride (COF<sub>2</sub>). Carbon oxides, silicon oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects:

##### Potential Health Effects:

**Inhalation:** Inhalation causes irritation to the upper respiratory tract. May cause drowsiness or dizziness.

**Ingestion:** Ingestion may cause gastrointestinal distress. Ingesting large amounts may be harmful.

**Skin contact:** May cause mild skin irritation. May cause an allergic skin reaction in some individuals.

**Eye contact:** Causes irritation with redness, pain, and tearing.

**Chronic Effects:** None expected.

**Skin corrosion/irritation:** None of the components are classified as a skin irritant.

**Eye damage/irritation:** Contains component that is an eye irritant.

**Respiratory Irritation:** No data available.

**Respiratory Sensitization:** Components are not respiratory sensitizers.

**Skin Sensitization:** Proprietary Polyurethane Silane, and Acetylacetone may cause skin sensitization.

**Germ Cell Mutagenicity:** Components are not germ cell mutagens.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by IARC, NTP, US OSHA or the EU CLP or classified as carcinogens under the GHS.

**Reproductive Toxicity:** No adverse effects are expected. Components are not reproductive toxins.

**Aspiration Hazard:** None of the components are aspiration hazards.

##### Specific Target Organ Toxicity:

**Single Exposure:** No adverse effects are expected.

**Repeat Exposure:** No data available.

##### Acute Toxicity Values:

Product ATE: LD50 Oral >5,000 mg/kg  
LD50 Dermal > 10,000 mg/kg  
LC50 Inhalation >20 mg/L

2-Propanol: LD50 Oral rat 5,840 mg/kg  
LD50 Dermal rabbit 16,400 mg/kg  
LC50 Inhalation rat >10,000 ppm

Proprietary Polyurethane Silane:  
Not classified as acutely toxic.

Tetraethoxysilane: LD50 Oral rat 6,270 mg/kg  
LD50 Dermal rabbit 5,878 mg/kg

Acetylacetone: LD50 Oral rat 570 mg/kg  
LD50 Dermal rabbit 790 mg/kg



## SAFETY DATA SHEET

LC50 Inhalation rat 5.1 mg/L / 4 hr.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity:

2-Propanol: LC50: Pimephales promelas (fathead minnows) 11,130 mg/L /96 hr.  
EC50: Daphnia magna > 10,000 mg/L/48 hr.  
Tetraethoxysilane: LC50: Zebrafish >245 mg/L /96 hr.  
EC50: Daphnia magna > 844 mg/L/48 hr.  
Acetylacetone: LC50 Pimephales promelas (fathead minnow) 104 mg/L/96 hr.  
EC50 Daphnia magna (water flea) 75 mg/L/48 hr.

#### 12.2 Persistence and degradability:

2-Propanol: Readily bio-degradable  
Tetraethoxysilane: Volatilization half-lives for a model river and model lake are 2.9 and 25 days, respectively  
Acetylacetone: 69.6% in 20 days.

#### 12.3 Bioaccumulative Potential:

2-Propanol: Bioconcentration in aquatic organisms is low.  
Tetraethoxysilane: Bioconcentration in aquatic organisms is low.  
Acetylacetone: Bioconcentration in aquatic organisms is low.

#### 12.4 Mobility in Soil:

2-Propanol: Very high.  
Tetraethoxysilane: Very high.  
Acetylacetone: Very high.

**12.5 Results of PBT and vPvB assessment:** Components are not classified as PBT or vPvB.

**12.6 Other Adverse Effects:** None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:** Dispose in accordance with all local and national regulations. It is the responsibility of the user, at the time of disposal, to determine whether the product meets the criteria for hazardous waste.

### SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1263	Paint	3	II	No
Canadian TDG	UN1263	Paint	3	II	No
EU ADR/RID	UN1263	Paint	3	II	No
IMDG	UN1263	Paint	3	II	No



## SAFETY DATA SHEET

IATA/ICAO	UN1263	Paint	3	II	No
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**14.6 Special Precautions for User:** None known.

**14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable, sold in package form only.

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

**EPA Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

**SARA 302 Listed Chemicals:** None.

**SARA 311/312 Hazard Categories:** Classified as per Section 2 of this SDS.

**SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372):** None

**California Proposition 65:** This product does not require a California Proposition 65 warning.

**15.2 Chemical safety assessment:** Not required





## SAFETY DATA SHEET

### SECTION 16: OTHER INFORMATION

**HMIS Ratings:** Health - 2

Flammability - 3

Physical Hazard - 0

**NFPA Ratings:** Health - 2

Flammability - 3

Instability - 0

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Dermal Tox. 3 – Acute Dermal Toxicity Category 3

Eye Irrit. 2 - Eye Irritation Category 2

Flam. Liq. 2 – Flammable Liquids Category 2

Flam. Liq. 3 – Flammable Liquids Category 3

Flam. Liq. 4 – Flammable Liquids Category 4

Inhalation Tox. 3 - Acute Inhalation Toxicity Category 3

Oral Tox. 4 - Acute Oral Toxicity Category 4

Skin Sens. 1 – Skin Sensitization Category 1

STOT RE 3 – Specific Target Organ Toxicity Repeat Exposure Category 3

H225 Highly flammable liquid and vapor.

H226 Flammable Liquid and vapor.

H227 Combustible Liquid

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

**SDS Revision History:** Change to Section 15. CA Prop 65 statement.

**Date of SDS preparation:** November 21, 2017

**Date of previous revision:** April 29, 2020

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