



SAFETY DATA SHEET

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

1.1 Product Identifier

Trade Name Gentoo – Part B

SDS Date June 30, 2016

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 A 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@avehototechnology.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 Damage Category 1 Specific Target Organ Toxicity – Single Exposure 3 (CNS Effects)	Not Hazardous

2.2 Label Elements



Danger!



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Hazard Phrases	Precautionary Phrases
<p>H225 Highly flammable liquid and vapor. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.</p> <p>Precautionary Phrases Continued Response P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 Wash contaminated clothing before reuse. 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. P310 Immediately call a POISON CENTER or doctor. P370 + P378 In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.</p>	<p>Prevention 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>Prevention Continued 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. P280 Wear protective gloves, eye protection, and face protection.</p> <p>Storage P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.</p> <p>Disposal 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	60-65	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336)
1-Propanol	71-23-8 / 200-746-9	20-25	Flam. Liq. 2 (H225), Eye Dam. 1 (H318), STOT SE 3 (H336)
Water	7732-18-5 / 231-791-1	10-15	Not Hazardous

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.



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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 develops, get medical attention.

Eye contact: Rinse cautiously with water for 20 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 severe eye irritation and possible damage. May cause mild skin irritation. Inhalation of mists cause upper respiratory tract irritation and 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 required for eye contact.

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.

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: Eliminate all ignition sources and ventilate the area with explosion-proof equipment. Wear appropriate protective clothing and equipment as described in Section 8.

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.

6.4 Reference to Other Sections:



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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 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 A 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
1-Propanol	200 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV	None Established	None Established	200 ppm TWA, 250 ppm STEL
Water	None Established	None Established	None Established	None Established

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.



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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 to slightly cloudy colorless liquid.

Odor: Alcohol like odor.

Odor threshold: Not determined.	pH: 4
Melting point/freezing point: Not determined.	Boiling Point: 181.4°F (83°C)
Flash point: 54°F (12°C)	Evaporation rate (butyl acetate =1): Not determined
Flammability (solid, gas): Not applicable	VOC (Wt./Gal) wet: 4.28%
Flammable limits: LEL: 1%	UEL: 14%
Vapor pressure: Not determined.	Vapor density: Not determined
Relative density: 0.812	Solubility(ies): Not determined
Partition coefficient: n-octanol/water: Not determined.	Auto-ignition temperature: 750.2°F (399°C)
Decomposition temperature: Not determined	Viscosity: Not determined
Explosive Properties: Not applicable	Oxidizing Properties: 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.

10.5 Incompatible Materials: Strong oxidizers.

10.6 Hazardous Decomposition Products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Inhalation: Inhalation causes irritation to the upper respiratory tract, and can cause drowsiness or dizziness.

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

Skin contact: May cause mild skin irritation.

Eye contact: Causes severe irritation with redness, pain, tearing, and possible damage.

Chronic Effects: None expected.



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

Eye damage/ irritation: Contains 1-Propanol which is classified as causing eye damage.

Respiratory Irritation: No data available.

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: Components are not skin sensitizers.

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 2,715 mg/kg LD50 Dermal 4,638 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
1-Propanol:	LD50 Oral rabbit 2,823 mg/kg LD50 Dermal rabbit 4,032 mg/kg LC50 Inhalation rat >10,000 ppm
Water:	Not acutely toxic.

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.
1-Propanol:	LC50: Pimephales promelas (fathead minnows) 4,480 mg/L /96 hr.

12.2 Persistence and degradability:

2-Propanol:	Readily bio-degradable
1-Propanol:	Readily bio-degradable

12.3 Bioaccumulative Potential:

2-Propanol:	Bioconcentration in aquatic organisms is low.
1-Propanol:	Bioconcentration in aquatic organisms is low.

12.4 Mobility in Soil:

2-Propanol:	Very high.
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1-Propanol: 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	UN1987	Alcohols, n.o.s.	3	II	No
Canadian TDG	UN1987	Alcohols, n.o.s.	3	II	No
EU ADR/RID	UN1987	Alcohols, n.o.s.	3	II	No
IMDG	UN1987	Alcohols, n.o.s.	3	II	No
IATA/ICAO	UN1987	Alcohols, n.o.s.	3	II	No

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 packaged 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: Fire Hazard, Acute Health

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 contains chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian Environmental Protection Act: One or more of the components of this product are not listed on the



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Canadian Domestic Substances List.

European Union: All of the components are listed REACH Registered or Pre-Registered Substances and Intermediates.

Australia: All of the ingredients of this product are not listed on the Australian Inventory of Chemical Substances (AICS).

China: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

Korea: One or more of the components of this product are not listed on the Korean Existing Chemical List (KECL).

Japan: One or more of the components of this product are not listed on the Japanese Existing and New Chemical Substances List (ENCS).

New Zealand: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

Taiwan: All the components are listed on the existing chemicals inventory.

15.2 Chemical safety assessment: Not required

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health - 3

Flammability - 3

Physical Hazard - 0

NFPA Ratings: Health - 2

Flammability - 3

Instability - 0

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

Eye Dam. 1 – Eye Damage Category 1

Eye Irrit. 2 - Eye Irritation Category 2

Flam. Liq. 2 – Flammable Liquids Category 2

STOT SE 3 – Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapor.

H318 Causes serious eye damage

H319 Causes serious eye irritation

SDS Revision History: New REACH SDS

Date of SDS preparation: June 30, 2016

Date of previous revision: N/A

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