1. Product & Company Identification

Product Name: AVPW Solvent Ink Plate Clenaer
Item Number(s): AVACPW20-200-5G, AVACPW20-200
Relevant Identified Use:
Restrictions On Use: **None**
Manufacturer: Anderson & Vreeland, Inc.
15348 US Route 127 E-W, P.O.Box 527
Bryan, OH 43506 USA
Tel 1-866-282-7697

For Emergencies Involving A Spill, Leak, Fire, Exposure or Accident, Contact:	
ChemTel Inc.	(800)255-3924

2. Hazard(s) Identification

Hazard Classification		**Hazard Statements**	**Hazard Category**
H225	Flammable liquids (chapter 2.6)	Highly flammable liquid and vapour	2
H319	Serious eye damage/eye irritation (chapter 3.3)	Causes serious eye irritation	2A
H314	Skin corrosion/irritation (chapter 3.2)	Causes severe skin burns and eye damage	1
H336	Specific target organ toxicity, single exposure; Narcotic effects (chapter 3.8)	May cause drowsiness or dizziness	3
H290	Corrosive to metals (chapter 2.16)	May be corrosive to metals	1

Signal Word: **Danger**

Hazard Pictograms:

Precautionary Statements:

P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/.../] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P312	IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant/... container with a resistant inner liner.
P501	Dispose of contents/container to local/regional regulations.

3. Composition/Information on Ingredients

Chemical Characterization: Mixture

Chemical Name	Synonym	CAS #	Concentration*
Diethylene glycol monobutyl ether		112-34-5	70-85%
2-propanol		67-63-0	5-15%

*In accordance with paragraph (i) of §1910.1200, specific chemical identities and exact chemical percentages (concentration) of composition have been withheld as a trade secret.

4. First Aid Measures

After Inhalation: Remove victim to fresh air. Administer oxygen if breathing is difficult. Seek medical attention if respiratory irritation or distress continues.

After Skin Contact: Wash with plenty of water. If irritation persists, seek medical attention. Wash contaminated clothing before re-use.

After Eye Contact: Flush with a gentle, steady stream of water for at least 15 minutes. Seek medical attention.

After Swallowing: Do NOT induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Do not leave victim unattended. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation

5. Firefighting Measures

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical or powder, carbon dioxide (CO2)

Specific Firefighting Measures: N/A

Special Protective Equipment: Wear an approved positive pressire self-contained breathing apparatus in addition to standard fire fighting gear

Unusual Fire and Explosion Hazards: Forms peroxides if unknown stability. Carbon oxides. Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along the floors. Development of hazardous combustion gases and vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

Special Precautions: Remove container from the danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Personal Precautions/Protective Equipment

Wear protective equipment. Transfer to a disposal or recovery container. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Protect from heat.

Environmental Precautions

Avoid release to the environment. Prevent from reaching drains, sewer, or waterway. Risk of explosion.

Methods and Materials for Containment and Cleaning Up

Contain spillage, soak up with non-combustible abosrbent material (e.g. sand, earth, diatomaceous earth, vermiculite), and transfer to a container for disposal according to local/national regulations.

7. Handling & Storage

Precautions For Safe Handling:	Work in a well ventilated area. Wash thoroughly after handling.
Recommended Storage Conditions:	Protect against physical damage. Store in a cool, dry, well ventilated location away from incompatibles. Do not store in unlabeled or mislabeled containers. Keep container tightly closed. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge.

8. Exposure Controls / Personal Protection

	CAS No.	Basis	Value Type	Control Parameters
Diethylene glycol monobutyl ether	112-34-5	**OSHA (PEL)**		N/A
		ACGIH (TLV)	TWA	10 ppm
2-propanol	67-63-0	**OSHA (PEL)**	TWA	400 ppm
		ACGIH (TLV)	TWA	200 ppm
		NIOSH	ST	500 ppm
		NIOSH	TWA	400 ppm
		California permissible exposure limits for chemical contaminants	PEL	400 ppm
		California permissible exposure limits for chemical contaminants	STEL	500 ppm

Appropriate Engineering Controls:	Change contaminated clothing. Wash hands after working with the substance. Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Personal Protective Measures:	Use safety glasses for eye protection tested and approved under government standards such as NIOSH (US) or EN 166 (EU). Approved safety gloves. If engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level, an approved respirator must be worn. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. For high airborne concentrations, use an approved supplied-air respirator.
General Industrial Hygiene Practices:	Wash with soap and water before meals and at the end of each work shift. Good manufacturing practices require amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.
Control of Environmental Exposure:	Do not let product enter drains. Risk of explosion.

9. Physical & Chemical Properties

Appearance:	Clear Liquid	Odor:	Faint	Odor Threshold:	N/A
pH:	>11	Melting Point:	N/A	Freezing Point:	Unknown
Initial Boiling Point:	Unknown	Boiling Range:	Unknown	Flash Point:	< 155° F
Evaporation Rate:	Unknown	Flammability (Solid):	Unknown	Flammability (Gas):	Unknown
Lower Explosive Limit:	Unknown	Upper Explosive Limit:	Unknown	Vapor Pressure:	N/A
Vapor Density:	Unknown	Relative Density:	0.90 - 0.99	Solubility:	Soluble
Log Kow:	Unknown	Auto-Ignition Temp:	Unknown	Decomposition Temp:	Unknown
Viscosity:	Unknown				

10. Stability & Reactivity

Reactivity: Vapors may form explosive mixture with air.

Chemical Stability: This product is stable under normal handling & storage conditions. Can react with air to form peroxides.

Other Information: Avoid exposure to high heat sources, electrical and welding arcs, open flame. Avoid strong oxidizing agents and incompatible materials.

11. Toxicological Information

Routes of Harmful Exposure: Inhalation, Ingestion, Oral, Dermal

Acute Toxicity Estimates

Components			
Diethylene glycol monobutyl ether	Oral	LD50 Rat	4,500 mg/kg
	Inhalation	LC50 Rat	>29 ppm, exposure time of 2 h
	Dermal	LD50 Rabbit	2,764 mg/kg
2-propanol	Oral	LD50 Rat	5,840 mg/kg
	Inhalation	LC50 Rat	37.5 ppm, exposure time of 4 h
	Dermal	LD50 Rabbit	12,800 mg/kg

Skin Corrosion/Irritation

Components	Species	Exposure time	Result
Diethylene glycol monobutyl ether	Rabbit	4 h	slight
2-propanol	Rabbit	4 h	none

Serious Eye Damage/Eye Irritation

Components	Species	Exposure time	Result
Diethylene glycol monobutyl ether	Rabbit	24 h	slight
2-propanol	Rabbit	-	eye irritation

Respiratory or Skin Sensitization

Components	Species	Exposure time	Result
Diethylene glycol monobutyl ether	Guinea pig	-	negative
2-propanol	Guinea pig	-	negative

Germ Cell Mutagenicity

Components

Diethylene glycol monobutyl ether

Genotoxicity in vitro	Test Type	Metabolic activation	Result
	Bacterial	+/- activation	negative
	Mammalian	+/- activation	negative

Genotoxicity in vivo	Species	Application Route	Result
	Mouse	oral: gavage	negative

2-propanol

Genotoxicity in vitro	Test Type	Metabolic activation	Result
	Ames Test	+/- activation	negative
	Mammalian	+/- activation	negative

Genotoxicity in vivo	Species	Application Route	Result
	Mouse	Intraperitoneal injection	negative

Carcinogenicity

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive Toxicity Not classified based on available information

Single Target Organ Toxicity - single exposure

Component

Diethylene glycol monobutyl ether

Not classified based on available information

2-propanol

Inhalation, Oral May cause drowsiness or dizziness - Central nervous system

Single Target Organ Toxicity - repeat exposure exposure

Component

Diethylene glycol monobutyl ether

Not classified based on available information

2-propanol

No data available

Aspiration Hazard

Not classified based on available information

Additional Information

Handle in accordance with good industrial hygiene and safety practice

12. Ecological Information

Ecological Toxicity Data

Components

Diethylene glycol monobutyl ether

Toxicity to fish	LC50 (Fish): 1,300 mg/l, Exposure time of 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (water flea)): >= 100mg/l Exposure time of 48 h
Toxicity to algae/aquatic plants	EC50 (Chlorelle pyrenoidosa): > 100 mg/l Exposure time of 96 h

2-propanol

Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l, Exposure time of 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (water flea)): 13,299 mg/l, Exposure time of 48 h
Toxicity to algae	IC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l, Exposure time of 72 h
Toxicity to bacteria	EC50 (Pseudomonas putida): 1,050 mg/l, Exposure time of 16 h

Persistence and Degradability

Components

Diethylene glycol monobutyl ether

	Result	Biodegradation	Time
Biodegradability	Readily biodegradable	85%	28 d

2-propanol

	Result	Biodegradation	Time
Biodegradability	Readily biodegradable	53%	5 d

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other Adverse Effects

No data available

13. Disposal Considerations

Waste Disposal Recommendations:	Dispose according to local/regional regulations.
Ecology - Waste Material:	Avoid release to the environment. Do not discharge into any body of water.

14. Transport Information

DOT (US)	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good

15. Regulatory Information

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Serious eye damage or eye irritation

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313

diethylene glycol monobutyl ether	CAS No.	112-34-5
2-propanol	CAS No.	67-63-0

California Prop. 65

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Federal Regulations: All functional components of this product are listed on the TSCA inventory.

16. Other Information

This information is furnished without warranty, expressed or implied, and is believed to be accurate to the best knowledge of Anderson & Vreeland, Inc. The data on this SDS relates only to the specific material design herein. Anderson & Vreeland, Inc. assumes no legal responsibility for use or reliance upon this data. This product has been classified according to the hazard criteria of the CPR and this SDS contains all the information required by the CPR.