SAFETY DATA SHEET

1. Identification

Product identifier	PSP Cleaning Wipes
Other means of identification	None
Recommended use	Phosphor Storage Plates and Plate Protectors
Recommended restrictions	None known.
Distributor:	
Company name	Air Techniques, Inc.
Address	1295 Walt Whitman Road, Melville, NY 11747
Telephone	1-800-AIR TECH
Emergency phone number	1-800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards	Flammable solids
Health hazards	Acute toxicity, dermal Acute toxicity, inhalation Serious eye damage/eye irritation Carcinogenicity Reproductive toxicity Specific target organ toxicity, single exposure Specific target organ toxicity, repeated exposure
Environmental hazards	Hazardous to the aquatic environment, acute hazard Hazardous to the aquatic environment, long-term hazard
OSHA defined hazards	Not classified
Label elements	

Signal word	Danger
Hazard statement	Flammable solid. Toxic in contact with skin. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with

	water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Call a poison center/doctor. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	85.78% of the mixture consists of component(s) of unknown acute dermal toxicity. 8.91% of the mixture consists of component(s) of unknown acute inhalation toxicity. 14.13% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 14.13% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number
Ethanol	64-17-5
2-propanol	67-63-0
Methanol	67-56-1
2-pentanone, 4-methyl-	108-10-1

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (C02). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Ingredients	Exposure Limits
Ethanol	ACGIH-TLV TWA: 200 ppm STEL: 1000 ppm OSHA-PEL TWA: 1000 ppm
Methanol	ACGIH-TLV TWA: 200 ppm STEL: 250 ppm OSHA-PEL TWA: 200 ppm
2-pentanone, 4-methyl-	ACGIH-TLV STEL: 75 ppm
2-propanol	ACGIH-TLV STEL: 75 ppm OSHA-PEL TWA: 100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value
2-pentanone, 4-methyl-	1 mg/l
2-propanol	40 mg/l
Methanol	15 mg/l

Exposure guidelines

US- California OELs: Skin designation	
Methanol	Can be absorbed through the skin
US- Minnesota Haz Subs: Skim designation applies	
Methanol	Skin designation applies
US- Tennessee OELs: Skin designation	
Methanol	Can be absorbed through the skin
US ACGIH Threshold Limit Values: Skin designation	
Methanol	Can be absorbed through the skin
US NIOSH Pocket Guide to Chemical Hazards: Skin designation	
Methanol	Can be absorbed through the skin

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.
Personal protective equipment	
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid
Form	Solid
Color	Colorless
Odor	Not significant
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-167.51 of (-110.84 °C) estimated /999 of (537.22 °C)
Initial boiling point and boiling range	173.52 of (78.62 °C) estimated
Flash point	65.0 of (18.3 °C)
Evaporation rate	Not available.

Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	4.3 % estimated
Flammability limit – upper (%)	19.3 % estimated
Explosive limit –lower (%)	Not available.
Explosive limit – upper (%)	Not available
Vapor pressure	80.77 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	682.64 of (361.47 °C) estimated
Decomposition temperature	Not available
Viscosity of liquid	Not available
Other information	
Density	6.59 Ibs/gal estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	100 % estimated
Specific gravity	0.79 estimated
VOC (Weight %)	99.91 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	Harmful if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Toxic in contact with skin
Eye contact	Causes serious eye irritation
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.
Information on toxicological effects	
Acute toxicity	Toxic in contact with skin. Harmful if inhaled.

Ingredients	Dermal (LD50)	Inhalation (LC50)	Oral (LD50)
2-pentanone, 4-methyl-	>16000 mg/kg rabbit	8.2 mg/I, 4 Hours rat	2080 mg/kg rat
2-propanol	12800 mg/kg rabbit	-	4797 mg/kg dog 3600 mg/kg mouse 5.03 g/kg rabbit 4.7 g/kg rat
Ethanol	-	39 mg/I, 4 Hours mouse 20000 ppm, 10 Hours rat	5.5 g/kg dog 5.6 g/kg guinea pig 3450 mg/kg mouse 6.2 g/kg rat
Methanol	15800 mg/kg rabbit	85.41 mg/I, 4.5 Hours cat 43.68 mg/I, 6 Hours cat 64000 ppm, 4 Hours rat 87.5 mg/I, 6 Hours rat	8000 mg/kg dog 2 g/kg monkey 7300 mg/kg 14.4 g/kg rabbit 5628 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Suspected of causing cancer
IARC Monographs. Overall Evaluation of Carcinogenicity	2-PENTANONE, 4-METHYL- (CAS 108-10-1): 2B Possibly carcinogenic to humans
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity single exposure	May cause damage to organs.
Specific target organ toxicity repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects

Ingredients	LC50	EC50
2-pentanone, 4-methyl-	492-593 mg/l, 96 hours fathead minnow	-
2-propanol	>1400 mg/l, 96 hours bluegill	-
Ethanol	>100 mg/l, 96 hours fathead minnow	7.7-11.2 mg/l, 48 hours water flea
Methanol	>100 mg/l, 96 hours fathead minnow	>10000 mg/l, 48 hours water flea

Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	
Partition coefficient n-octanol / water (log Kow)	
2-PENTANONE,4-METHYL-	1.31
2-PROPANOL	0.05
ETHANOL	-0.31
METHANOL	-0.77

Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

U.S. Department of Transportation (DOT)	
UN number	UN3175
UN proper shipping name	Solids containing flammable liquid, n.o.s
Transport hazard class(es)	
Class	4.1
Subsidiary risk	-
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	47, IB6, IP2, T3, TP33
Packaging exceptions	<1 Kg – Consumer Commodity ORM-D
ERG number	133

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	2-PENTANONE, 4-METHYL- Listed METHANOL – Listed
SARA 304 Emergency release notification	Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard – No
SARA 302 Extremely hazardous substance	Not listed
SARA 311/312 Hazardous Chemical	No
SARA 313 (TRI reporting)	

Chemical name	CAS number	% by wt.
Methanol	67-56-1	4.3248

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
METHANOL (CAS 67-56-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

2-PENTANONE, 4-METHYL- (CAS 108-10-1) 6715

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

2-PENTANONE, 4-METHYL- (CAS 108-10-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

2-PENTANONE, 4-METHYL- (CAS 108-10-1) 6715

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
2-PROPANOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)

US. Massachusetts RTK - Substance List

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
2-PROPANOL (CAS 67-63-0)
ETHANOL (CAS 64-17-5)
METHANOL (CAS 67-56-1)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
2-PROPANOL (CAS 67-63-0)
ETHANOL (CAS 64-17-5)
METHANOL (CAS 67-56-1)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
2-PROPANOL (CAS 67-63-0)
ETHANOL (CAS 64-17-5)
METHANOL (CAS 67-56-1)

US. Rhode Island RTK

2-PENTANONE, 4-METHYL- (CAS 108-10-1)
2-PROPANOL (CAS 67-63-0)
METHANOL (CAS 67-56-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2-PENTANONE, 4-METHYL- (CAS 108-10-1) Listed: November 4, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

2-PENTANONE, 4-METHYL- (CAS 108-10-1) Listed: March 28, 2014
METHANOL (CAS 67-56-1) Listed: March 16,2012

16. Other information

Issue date	November 10, 2015
Effective date	November 10, 2015
Version #	Rev C
HMIS® ratings	Health: 3* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 3 Instability: 0
Reference	Ethyl alcohol PM-4082 200PF SDS, Version 02, Brenntag
Disclaimer	The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to information and recommendations contained herein.