Arch Treatment Technologies, Inc.

MATERIAL SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **PACK P-T**
EPA Registration Number: 75506-9

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Treatment Technologies, Inc.
1955 Lake Park Drive, Suite 100
Smyrna, GA 30080

REVISION DATE:	03/10/2008
SUPERCEDES:	01/28/2008
MSDS Number:	000000004403
SYNONYMS:	
CHEMICAL FAMILY:	Mixture
DESCRIPTION / USE:	
FORMULA:	None established

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	**Mild eye, skin and mucous membrane irritant, Toxic by inhalation**

Routes of Entry:	Inhalation, skin, eyes, ingestion
Chemical Interactions:	No known interactions
Medical Conditions Aggravated:	None known or reported

Human Threshold Response Data

Odor Threshold	Not established for product.
Irritation Threshold	Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings :	Health	Flammability	Physical / Instability	PPI / Special hazard.
HMIS	1	1	0	
NFPA	1	1	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:	Slightly toxic by inhalation. High concentrations may be slightly irritating to the eyes, nose, throat, and lungs.
Skin Toxicity:	Skin contact may cause minor irritation consisting of transient redness and/or swelling.

Eye Toxicity:	Contact may cause mild irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva. No corneal involvement or visual impairment is expected.
Ingestion Toxicity:	Moderately toxic if swallowed. Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea.
Acute Target Organ Toxicity:	May cause mild skin, eye and mucous membrane irritation (includes upper respiratory tract). Ingestion may cause mild gastrointestinal discomfort.

Prolonged (Chronic) Health Effects

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. This product contains a component that has been classified by the U.S. EPA as a "Group C" Carcinogen.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.
Skin Contact:	There are no known or reported effects from chronic exposure except for effects (if any) similar to those experienced from acute exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Chronic Target Organ Toxicity:	There are no known or reported target organ effects from chronic exposure.
Supplemental Health Hazard Information :	No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS #	% RANGE
Propiconazole	60207-90-1	4.75 - 5.25
TEBUCONAZOLE	107534-96-3	4.75 - 5.25
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	
Surfactant	PROPRIETARY	

4. FIRST AID MEASURES

General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA):	Combustible above 93 deg. C / 200 deg. F.
Flammable Properties	
Flash Point:	> 100 DEG°C / 212 DEG°F
Autoignition Temperature:	No data.
Fire / Explosion Hazards:	Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Extinguishing Media:	Not Applicable. - Choose extinguishing media suitable for surrounding materials.
Fire Fighting Instructions:	In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	Hazardous combustion/decomposition products may include but are not limited to:, Carbon monoxide, Carbon dioxide, Oxides of nitrogen
Upper Flammable / Explosive Limit, % in air:	No data.
Lower Flammable / Explosive Limit, % in air:	No data

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:	Response to this material requires the use of personal protective equipment to prevent contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, chemical splash-proof goggles, impervious clothing and appropriate approved respiratory protection.
Spill Mitigation Procedures	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog. Contain all liquids for treatment or disposal.
Water Release:	This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquids for treatment or disposal.
Land Release:	Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Do not place spill materials back in their original containers. Contain all liquids for treatment or disposal.
Additional Spill Information :	Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

7. HANDLING AND STORAGE

Handling:	An eye wash and safety shower should be provided in the immediate work area. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not take internally. Avoid contact with skin, eyes and clothing by wearing proper protective equipment. Upon contact with skin or eyes, wash off with water. Label containers and keep them tightly closed when not in use. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.
Storage:	Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not store near feed, food, or within the reach of children. Do not freeze. Keep product tightly sealed in original containers.
Incompatible Materials for Storage:	Strong oxidizing agents strong acids and bases
Empty Container Warning:	Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.Offer empty container for recycling or dispose of in accordance with all federal, state, or local requirements.If empty containers are disposed (not recycled), containers must be triple rinsed to ensure removal of all product. All rinse water should always be directed into a sump or pit that is pumped back to the makeup water tank. All product labels should be removed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Respirator Type : A NIOSH approved air purifying respirator with organic vapor cartridge and P100 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Wear impervious gloves to avoid skin contact.

Eye Protection: Use safety glasses with side shields.

Protective Clothing Type: Impervious, Neoprene, Butyl rubber, Nitrile

General Protective Measures: An eye wash and safety shower should be provided in the immediate work area.

Exposure Limit Data

CHEMICAL NAME	CAS #	Name of Limit	Exposure
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_ACGIH	100 ppm TWA 606 mg/m3 TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_ACGIH	150 ppm STEL 909 mg/m3 STEL
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAPO	100 ppm TWA 600 mg/m3 TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAPO	150 ppm STEL 900 mg/m3 STEL
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAP1	100 ppm TWA 600 mg/m3 TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	NIOSH-IDLH	600 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	Mixture
Color:	light, brown
Odor:	mild, amine-like
Molecular Weight:	None established
Specific Gravity :	0.955
pH :	7.0 - 8.0
Boiling Point:	100 DEG°C / 212 DEG°F

Freezing Point:	No data.
Melting Point:	No data
Density:	1.00g/ml
Vapor Pressure:	No data
Vapor Density:	No data
Viscosity:	100 - 125 CPS
Fat Solubility:	No data
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	No data.
Evaporation Rate:	No data
Oxidizing:	The substance has no oxidizing properties
Volatiles, % by vol.:	16.6%
VOC Content	16.0 wt%/wt EPA Method 24
HAP Content	No data

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents, strong acids, strong bases
Hazardous Decomposition Products:	Hazardous combustion/decomposition products may include but are not limited to:, Carbon monoxide, Carbon dioxide, nitrogen oxides
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Propiconazole	LD50	= 1,517 mg/kg	Rat
TEBUCONAZOLE	LD50	= 1,700 mg/kg	Rat Male
TEBUCONAZOLE	LD50	= 4,000 mg/kg	Rat Female
Propanol, (2,methoxy-methylethoxy-)	LD50	= 5,300 mg/kg	
Surfactant	LD50	= 1,200 mg/kg	Rat

Dermal LD50 value:

Propiconazole	LD50	> 4,000 mg/kg	Rat
TEBUCONAZOLE	LD50	> 5,000 mg/kg	Rat
Propanol, (2,methoxy-methylethoxy-)	LD50	> 2,000 mg/kg	Rabbit
Surfactant	LD50	> 3,000 mg/kg	Guinea pig

Inhalation LC50 value:

Propiconazole	Inhalation LC50 4 h	> 5.27 MG/L	Rat
TEBUCONAZOLE	Inhalation LC50 4 h	> 5 MG/L	Rat
Propanol, (2,methoxy-methylethoxy-)	Inhalation LC50 1 h	> 200 MG/L	Rat
Surfactant	Inhalation LC50 4 h	Believed to be > 2.0 MG/L	Rat

Product Animal Toxicity

Oral LD50 value:	LD50 Believed to be = 1,300 mg/kg Rat
Dermal LD50 value:	LD50 Believed to be > 2,000 mg/kg Rabbit
Inhalation LC50 value:	Inhalation LC50 1 h Believed to be approximately 9.04 MG/L Rat Inhalation LC50 4 h Believed to be > 2.0 MG/L Rat
Skin Irritation:	May cause mild skin irritation.
Eye Irritation:	May cause mild eye irritation.
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Acute Toxicity:	May cause mild skin, eye and mucous membrane irritation (includes upper respiratory tract). Ingestion may cause mild gastrointestinal discomfort.
Subchronic / Chronic Toxicity:	Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Propiconazole	This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity, teratogenicity, or developmental toxicity.
Propanol, (2,methoxy-methylethoxy-)	Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Propiconazole	This chemical has been tested in a battery of mutagenicity/genotoxicity assays and the results were negative.
Propanol, (2,methoxy-methylethoxy-)	Not known or reported to be mutagenic.
Surfactant	This product was determined to be non-mutagenic in the Ames assay.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. This product contains a component that has been classified by the U.S. EPA as a "Group C" Carcinogen.

Propiconazole	This material has been classified by the U.S. EPA as a "Group C" Carcinogen (Suggestive Human Carcinogen), based on the observation of tumors in mouse livers. The relevance of tumors in the mouse liver has been questioned when assessing the risk to humans.
TEBUCONAZOLE	This material has been classified by the U.S. EPA as a "Group C" Carcinogen (Suggestive Human Carcinogen), based on the observation of tumors in mouse livers. The relevance of tumors in the mouse liver has been questioned when assessing the risk to humans.
Propanol, (2,methoxy-methylethoxy-)	This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

12. ECOLOGICAL INFORMATION

Overview: Do not apply directly to water or wetlands. Do not contaminate water, food, or feed by storage or disposal. Do not contaminate water by cleaning equipment, or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit., No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: **Propiconazole**

Carp,	-	96 h LC50 6.8 mg/l
Rainbow trout (Salmo gairdneri),	-	96 h LC50 5.3 mg/l
Crayfish	-	96 h LC50= 42 mg/l
Daphnia magna,	-	48 h EC50= 4.8 - 11.5 mg/l

Ecological Toxicity Values for: **Propanol, (2,methoxy-methylethoxy-)**

Fathead minnow (Pimephales promelas),	-	96 h LC50 > 10,000 mg/l
Daphnia magna,	-	48 h EC50 1,919 mg/l

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it will be a nonhazardous waste.

Potential US EPA Waste Codes : Not applicable

14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL
Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: 100.00 DEG°C >
Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL.
Emergency Response Guide Number: Not applicable

15. REGULATORY INFORMATION

UNITED STATES:
Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.
EPA Pesticide Registration Number: 75506-9

FIFRA Listing of Pesticide Chemicals (40 CFR 180): This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	Immediate (Acute) Health Hazard
Physical	None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	None established
ZUS_SAR302	Reportable quantity	None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313	De minimis concentration	Propiconazole [1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-methyl-1H-1,2,4-triazole] Value: 1%

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2,methoxy-methylethoxy-)

ZUSPA_RTK

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323
1990-01-01
PROPANOL, (2-METHOXYMETHYLETHOXY)-

hazardous substance

New Jersey:

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2,methoxy-methylethoxy-)

ZUSNJ_RTK

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
DIPROPYLENE GLYCOL METHYL ETHER
hazardous substance

Massachusetts:

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2,methoxy-methylethoxy-)

ZUSMA_RTK

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000
1991-07-01
DIPROPYLENE GLYCOL METHYL ETHER
massachusetts hazardous substance

California Proposition 65:

CAS #	COMPONENT NAME

ZUSCA_P65 None established

WHMIS Hazard Classification:

Canada. Canada Hazardous Products Act SOR/88-64
1988-01-20
Concentration by Weight: 1 percent by weight
662
DIPROPYLENE GLYCOL METHYL ETHER

16. OTHER INFORMATION

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
SECTIONS REVISED: 15
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .