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: **AntiBlu XP-64 Spray Solution**

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Wood Protection, Inc.
5660 New Northside Drive, NW
Suite 1100
Atlanta, GA 30328

REVISION DATE:	08/20/2009
SUPERCEDES:	03/03/2009
MSDS Number:	000000009537
SYNONYMS:	None
CHEMICAL FAMILY:	Quaternary ammonium chloride
DESCRIPTION / USE:	For the Control of Sapstain and Mold on Freshly Sawn and Seasoned Wood and Wood Products.
FORMULA:	None established

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	**Eye and skin irritant**

Routes of Entry: Skin, eyes, ingestion
Chemical Interactions: No known or reported 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	2	1	0	
NFPA	2	1	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:	Not expected to be toxic by inhalation. Not expected to be irritating.
Skin Toxicity:	Skin contact may cause moderate irritation consisting of transient redness and swelling. This irritant effect would not be expected to result in permanent damage. Not expected to be toxic from dermal contact.
Eye Toxicity:	Contact may cause moderate irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva. No corneal involvement or visual impairment is expected.
Ingestion Toxicity:	Ingestion may cause mild irritation of the gastrointestinal tract and may also cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea. Not expected to be toxic by ingestion.
Acute Target Organ Toxicity:	Contact with eyes or skin causes irritation.

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.
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 effects to humans from repeated exposure to this product.
Supplemental Health Hazard Information :	No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS #	% RANGE
Propiconazole	60207-90-1	0.152 - 0.168
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	68391-01-5	0.97 - 1.03
n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	0.97 - 1.03

4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never 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. Closed containers may explode (due to the build up of steam pressure) when exposed to extreme heat.
Extinguishing Media:	Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires. Water or foam may cause frothing if liquid solvent or oil is burning but it still may be a useful extinguishing agent if carefully applied to the fire.
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:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion., Hazardous combustion/decomposition products may include but are not limited to:, Carbon monoxide, Carbon dioxide, Hydrocarbons, 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:	Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release:	Vapors may be suppressed by the use of water fog. Contain all liquids for treatment or disposal.
Water Release:	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. Avoid runoff into storm sewers and ditches which lead to waterways. 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 ventilated location, away from oxidizers, heat, flame, or other incompatible conditions. Keep container(s) closed. Keep container closed when not in use. Do not store near feed, food, or within the reach of children. Do not freeze. Keep product tightly sealed in original containers.
Shelf Life Limitations:	8 months
Incompatible Materials for Storage:	strong acids and bases Strong oxidizing agents
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:	No exposure limits exist for the constituents of this product. Additional ventilation beyond that of general exhaust is not normally required.

Protective Equipment for Routine Use of Product

Respiratory Protection :	Respiratory protection not normally needed. If vapors, mists or aerosols are generated, wear a NIOSH approved respirator.
Respirator Type :	A NIOSH approved air purifying respirator equipped with combination organic vapor and P100 prefilter. 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
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
No Data Found			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	clear, liquid
Color:	clear
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1
pH :	7.4
Boiling Point:	No data.
Freezing Point:	No data.
Melting Point:	No data
Density:	8.32lb/gal
Vapor Pressure:	No data.
Vapor Density:	No data
Viscosity:	similar to water
Fat Solubility:	No data
Solubility in Water:	No data.
Partition coefficient n-octanol/water:	No data.
Evaporation Rate:	No data
Oxidizing:	The substance has no oxidizing properties
Volatiles, % by vol.:	No data
VOC Content	No data
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 acids and strong bases, Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous combustion/decomposition products may include but are not limited to:, Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrocarbons
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Propiconazole	LD50 = 1,517 mg/kg Rat
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	No data

Dermal LD50 value:

Propiconazole	LD50 > 4,000 mg/kg Rat
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	No data

Inhalation LC50 value:

Propiconazole	Inhalation LC50 4 h > 5.27 MG/L Rat
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	No data

Product Animal Toxicity

Oral LD50 value:	LD50 Believed to be > 5,000 mg/kg rat
Dermal LD50 value:	LD50 Believed to be > 2,000 mg/kg rabbit
Inhalation LC50 value:	no data available
Skin Irritation:	Moderate skin irritation
Eye Irritation:	Moderate eye irritation
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Acute Toxicity:	Contact with eyes or skin causes irritation.
Subchronic / Chronic Toxicity:	Not known or reported to cause subchronic or chronic toxicity.

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	This product has been tested for Subchronic toxicity in laboratory animals and no systemic toxicity or target organ effects occurred in the test animals.

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.
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	At high doses, maternal toxicity was observed. However, no developmental effects were observed.

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.
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	This chemical has been tested and was shown to be non-mutagenic.

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.
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY	The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

12. ECOLOGICAL INFORMATION

Overview: 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: **QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKY**

Bluegill sunfish	-	(static). 96 h LC50 = 0.52 mg/l
Rainbow trout (Salmo gairdneri),	-	(static). 96 h LC50 = 0.93 mg/l
Sheepshead minnow	-	(static). 96 h LC50 = 0.86 mg/l
Daphnia magna,	-	(static). 48 h EC50= 0.058 mg/l

Mysid shrimp	-	(static). 96 h LC50= 0.092 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 DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

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 DOT HAZARDOUS MATERIAL,

Flash Point: 100 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 product is a diluted mixture of one or more Registered Pesticides and is regulated by FIFRA (Canada-PMRA).
EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

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	GLYCOL ETHERS Value: GLYCOL ETHERS Value:
ZUS_SAR302	Reportable quantity	None established

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

ZUS_SAR313	De minimis concentration	3-Iodo-2-propynyl butylcarbamate Value: < 1% by weight Glycol ethers (Non-carcinogenic) Value: 1% Propiconazole 1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-methyl-1H-1,2,4,-triazole Value: < 1% by weight Glycol ethers (Non-carcinogenic) Value: 1%

Clean Air Act Toxic ARP Section 112r:

CAA 112R	None established

Clean Air Act Socmi:

HON SOC

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)
07 1999
Group I
ETHYLENE GLYCOL MONOBUTYL ETHER

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)
07 1999
Group I
DIETHYLENE GLYCOL MONOBUTYL ETHER

Clean Air Act VOC Section 111:

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)
01 1996
2-BUTOXYETHANOL

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)
01 1996
ETHYL ALCOHOL

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)
01 1996
DIETHYLENE GLYCOL MONOBUTYL ETHER

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP

US. EPA Hazardous Organic NESHAP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)
04 1999
GLYCOL ETHERS

US. EPA Hazardous Organic NESHAP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)
04 1999
GLYCOL ETHERS

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
111-76-2	Butoxyethanol
34590-94-8	Propanol, (2,methoxy-methylethoxy-)
64-17-5	Ethanol
112-34-5	Diethylene Glycol Monobutyl Ether

ZUSPA_RTK

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL, 2-BUTOXY-

Pennsylvania: Hazardous substance list
1989-08-11
PROPANOL, (2-METHOXYMETHYLETHOXY)-

Pennsylvania: Hazardous substance list
1990-01-01
ETHANOL
hazardous substance

Pennsylvania: Hazardous substance list
1990-01-01
DENATURED ALCOHOL
hazardous substance

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL

Pennsylvania: Hazardous substance list
1990-01-01
GLYCOL ETHERS
Environmental hazard, hazardous substance

New Jersey:

CAS #	COMPONENT NAME
111-76-2	Butoxyethanol
34590-94-8	Propanol, (2,methoxy-methylethoxy-)
64-17-5	Ethanol
112-34-5	Diethylene Glycol Monobutyl Ether

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
2007-03-01
2-BUTOXY ETHANOL ETHYLENE GLYCOL MONOBUTYL ETHER ETHANOL, 2-BUTOXY- BUTYL CELLOSOLVE
Special Health Hazard - Carcinogen

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
2007-03-01
DIPROPYLENE GLYCOL METHYL ETHER PROPANOL, 1(or 2)-(2-METHOXYMETHYLETHOXY)- (2-METHOXYMETHYLETHOXY) PROPANOL

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
2007-03-01
ETHYL ALCOHOL ALCOHOL METHYLCARBINOL ETHANOL
Special Health Hazard - Carcinogen, Special Health Hazard - Flammable - Third Degree, Special Health Hazard - Mutagen, Special Health Hazard - Teratogen

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
1989-12-01
GLYCOL ETHERS
hazardous substance

Massachusetts:

CAS #	COMPONENT NAME
111-76-2	Butoxyethanol

34590-94-8	Propanol, (2,methoxy-methylethoxy-)
64-17-5	Ethanol

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1993-04-24
2-BUTOXYETHANOL BUTYL CELLOSOLVE ETHYLENE GLYCOL MONOBUTYL ETHER

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1993-04-24
DIPROPYLENE GLYCOL METHYL ETHER

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1993-04-24
ETHYL ALCOHOL DENATURED ALCOHOL ETHANOL
Teratogen. Sufficient evidence of teratogenic risk in humans.

California Proposition 65:

CAS #	COMPONENT NAME

ZUSCA_P65 None established

WHMIS Hazard Classification:
None established

16. OTHER INFORMATION

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
SECTIONS REVISED: 1
Major References : Available upon request.