

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

Shield-Brite[®] AP-450

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Product Code: Product Use: Manufacturer: Address: Phone Number: Shield-Brite[®] AP-450 10408 Shellac Coating for Apples Pace International, LLC

Face International, LLC

ss: 5661 Branch Road, Wapato, WA 98951

 Phone Number:
 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)

Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR)

Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard) This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Classification: Precautionary Statements:

Classification: Flammable, Category 3 Eye irritation, Category 2A Skin Sensitization, Category 1 Hazard Symbols:



Signal Word: WARNING Hazard Statements: H226 Flammable liquid and vapor. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

Prevention Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed. P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/and process equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective clothing, safety glasses and chemical resistant gloves.

P264 Wash hands thoroughly after handling.

P261 Avoid breathing mist/vapors/ or spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

Response Statements:

Disposal Statements:

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower with plenty of soap and water.

P370/378 In case of fire. Use water fog, alcohol resistant foam, dry chemical, or carbon dioxide to extinguish.

P333/313 If skin irritation or rash occurs: Get medical

advice/attention. P362/364 Take off contaminated clothing and wash it before reuse. P321 Specific treatment See Section 4 First Aid Measures.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337/313 If eye irritation persists: Get medical advice/attention. Storage Statements:

P403/235 Store in well ventilated place. Keep cool.

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations. None known. None known.

Other Hazards: Hazard(s) not otherwise classified (HNOC):

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #
Isopropanol	67-63-0
Resin Acids and Rosin Acids, Fumarated, Esters with Pentaerythritol	94581-15-4
1,2-Propanediol	57-55-6
Other ingredients*	Balance
*Other Ingredients not identified are trade secrets and non-hazardous.	

Concentration (w/w %)

11.4 % 2.1 % 0.6 % 85 9 %

4.	FIRST AID	MEASUR	ES			
	General	Have the produc	t container, label or Safety Data Sheet with you when calling a poison control			
	Advice:		an, or going for treatment. You may also contact PROPHARMA (PROSAR) for emergency medical treatment information.			
	lf on Skin (or		ately all contaminated clothing. Wash skin with plenty of soap and			
hair): v		water/shower. If	skin irritation or rash occurs: Get medical advice/attention. Take off other before reuse.			
	If in Eyes:	Hold eye open a lenses, if presen	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. If eye irritation persists: Get medical advice/attention.			
	If Ingested:		o not induce vomiting. If vomiting occurs naturally, have victim lean forward to piration. Obtain medical attention.			
	If Inhaled:	Move person to	fresh air. If person is not breathing, call 911 or an ambulance, and then give on, preferably mouth-to-mouth, if possible.			
	Most		tion. Symptoms may include stinging, tearing, redness, swelling, and blurred			
	important	vision. May caus	e an allergic skin reaction. Dermatitis. Rash.			
	Symptoms /					
	effects, acute					
	and					
	Delayed:					
	Indication of Provide general		supportive measures and treat symptomatically. Symptoms may be delayed.			
	any immediate					
	medical					
	attention and					
	special					
	treatment					
	needed:					
5.	FIRE FIGH	TING ME	ASURES			
	Suitable Extinguishing Media: Unsuitable Extinguishing		Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.			
			Do not use water jet as an extinguisher, as this will spread the fire.			
	Media:	3				
	Special Hazards	Arising from	Vapors may form explosive mixtures with air. Vapors may travel considerable			
	the Chemical:	g	distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.			

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

firefighters:	
Fire-fighting	Move containers from fire area if you can do so without risk.
equipment/instructions:	Flammable liquid and vapor.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency procedures:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

and precautions for



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Containment / Clean-UpStop leak if you can do so without risk. Dike the spilled material, where this is
possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite,
dry sand or earth and place into containers. Never return spills to original
containers for re-use. Clean surface thoroughly to remove residual
contamination. Following product recovery, flush area with water. Prevent
entry into waterways, sewer, basements or confined areas. For waste
disposal, see section 13 of the SDS.

7. HANDLING & STORAGE

Precautions for Safe Handling:	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. When using, do not eat, drink or smoke. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Avoid prolonged exposure.
Conditions for Safe Storage,	Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Store in original tightly closed container. Keep away from heat, sparks and open flame.
including any Incompatibilities:	Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

US. OSHA Table Z-1 Limits f	for Air Contar	ninants (29 CFR 1910	0.1000)		
Components		Туре		Val	ue
Isopropanol (CAS 67-63-0)		PEL		980 m	ıg/m3
				400	opm
US. ACGIH Threshold Limit	Values				
Components		Туре		Val	ue
Isopropanol (CAS 67-63-0)		STEL		400	ppm
		TWA		200	opm
US. NIOSH: Pocket Guide to	Chemical Ha	zards			
Components		Туре		Val	ue
Isopropanol (CAS 67-63-0)		STEL		1225 n	ng/m3
				500	ppm
		TWA		980 m	ıg/m3
				400	ppm
US. AIHA Workplace Enviro	nmental Expo	sure Level (WEEL) G	Guides		
Components		Туре		Value	FORM
1,2-Propanediol (CAS 57-55-6	3)	TWA	1(0 mg/m3	Aerosol
Biological Limit Values					
ACGIH Biological Exposure	Indices				
Components	Value	Determinant	Specimen	Sa	mpling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	*	
 For sampling detail 	ils, please see	the source document.	i i i i i i i i i i i i i i i i i i i		
Exposure guidelines		See above			
Appropriate engineering		Good general vent	ilation (typically 10) air changes	per hour) should
controls		be used. Ventilation	n rates should be	matched to co	onditions. If
		applicable, use pro	cess enclosures,	local exhaust	ventilation, or
		other engineering of	controls to maintai	n airborne lev	els below
					ave not been

established, maintain airborne levels to an acceptable level.



Individual protection measures, such as personal protective equipment

Eye/face protection	Wear chemical goggles or face shield. Eye fountain and washing facilities should be available.	
Skin protection		
Hand protection	Nitrile, neoprene, and vinyl (PVC) gloves or other impervious gloves.	
Other	Use of an impervious apron or clothing.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)	
Thermal hazards	Not applicable.	
General hygiene considerations	Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Wash thoroughly after handling.	

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability	Not available
		limits:	
Appearance / Color:	Clear reddish liquid	Vapor pressure:	Not available
Odor:	Alcoholic	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H ₂ O = 1)	1.01
pH:	7.6	Solubility:	Miscible in water
Melting/Freezing point:	Not available	Partition coefficient	Not available
		(n-octanol-water):	
Pour Point:	Not available	Auto-ignition temperature:	Not available
Initial boiling point and	Not established	Decomposition temperature:	Not available
boiling range:			
Flash point:	91.4°F (33°C) closed	Viscosity:	Not available
	cup		
Evaporation rate:	Not available	Explosive properties:	Not explosive.
Flammability (solid, gas):	Not applicable	Oxidizing properties:	Not oxidizing.

10. STABILITY & REACTIVITY

Reactivity hazards:	This product may react with strong oxidizing agents.	
Possibility of Hazardous	Hazardous polymerization does not occur.	
Reactions:		
Chemical stability:	Stable under recommended storage conditions.	
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.	
Incompatible materials:	Acids. Strong oxidizing agents. Isocyanates. Chlorine.	
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon.	

11. TOXICOLOGICAL INFORMATION

Routes of exposure Information on likely route	Eye, Skin contact, Inhalation, Ingestion. es of exposure
Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	Prolonged inhalation may be harmful.
Skin corrosion / irritation:	May cause an allergic skin reaction.
Eye damage / irritation:	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.



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Information on toxicologica	al offects	
Acute toxicity	May cause an allergic skin reaction.	
Components	Species	Test Results
1,2-Propanediol (CAS 57-55-	•	Test Results
Acute	o)	
Dermal		
LD50	Rabbit	20800 mg/kg
Inhalation	Rabbit	20000 mg/kg
LC50	Not available	
Oral	Not available	
LD50	Dog	19000 mg/kg
ED30	Guinea pig	184000 mg/kg
	Mouse	23900 mg/kg
	Rabbit	14800 mg/kg
		0 0
	Rat	20000 mg/kg
Isopropanol (CAS 67-63-0) Acute		
Dermal		
LD50	Rabbit	12800 mg/kg, HSDB
LD50	Rabbit	16.4 ml/kg, 24 Hours, ECHA
Inhalation		10.4 mi/kg, 24 Hours, ECHA
LC50	Rat	> 10000 ppm, 6 Hours, ECHA
EC30	Rat	16980 mg/l/4h, HMIRA
Oral		10900 IIIg///411, HIVIIRA
LD50	Dog	4797 mg/kg, HSDB
LD50	Dog Mouse	3600 mg/kg, HSDB
	Rabbit	5030 mg/kg, HSDB
	Rabbit	
	Rat	5 g/kg, HSDB
Regin Asida And Regin Asida		5.8 g/kg, ECHA
Acute	, Fumarated, Esters With Pentaerythritol (CAS	94581-15-4)
Dermal		
LD50	Rat	> 2000 mg/kg 24 Hours ECHA
	Rai	> 2000 mg/kg, 24 Hours, ECHA
Inhalation	Notavailable	
LC50	Not available	
Oral		
LD50	Rat	> 5000 mg/kg, ECHA > 2000 mg/kg, ECHA
	Prolonged akin contact may cause temperary	0 0,
Skin corrosion/irritation:	Prolonged skin contact may cause temporary	Initation.
Serious eye damage/eye	Causes serious eye irritation.	
Irritation:		
Respiratory sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	May cause an allergic skin reaction.	
Germ cell mutagenicity:	No data available to indicate product or any co	omponents present at greater than
	0.1% are mutagenic or genotoxic.	
Carcinogenicity:	See below.	
	ulated Substances (29 CFR 1910.1001-1050)	
Not listed.		
Reproductive toxicity:	This product is not expected to cause reprodu	ctive or developmental effects.
Teratogenicity:	Not available.	
Specific target organ	Not classified.	
toxicity -		
single exposure:		
Specific target organ	Not classified.	
toxicity -		
repeated exposure:		
Aspiration hazard:	Material does not present an aspiration hazar	d.



12. ECOLOGICAL INFORMATION

Ecotoxicity		See below		
Ecotoxicological data		Species	Test Results	
Components				
1,2-Propanediol (CAS 57-55-6)		
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours	
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/L, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/L, 96 hours	
Isopropanol (CAS	67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours	
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/L, 96 hours	
Persistence/ deg	Persistence/ degradability: No data is available on the degradability of this product.		duct.	
Bioaccumulative potential				
Mobility in soil:		No data available.		
Mobility in general:		Not 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:	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
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

	DOT	IMDG	IATA
UN number:	UN 1993	Not applicable	Not applicable
Proper shipping name:	Flammable liquids, n.o.s. (Isopropanol)	Not regulated	Not regulated
Hazard class(es):	3	Not applicable	Not applicable
Packing group:	111	Not applicable	Not applicable
Marine Pollutant:	Not applicable		
Special precautions:	B1, B52, IB3, T4, TP1, TP2	29	
Packaging exceptions:	150		
Packaging Non Bulk:	203		
Packaging Bulk:	242		

15. REGULATORY INFORMATION

US FEDERAL
REGULATIONSThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Not regulated.

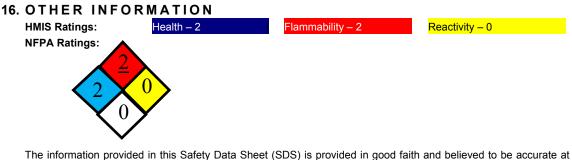




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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)						
			lot regulated.			
CERCLA Hazardous Substance L	ist (40 CFR 302.4) Isopropanol (CAS 67-63-0)					
	isted					
US. OSHA Specifically Regulated	Substances (29 CFR 1910.10					
			lot listed.			
Superfund Amendments and	Hazard Categories		mmediate Hazard - Yes			
Reauthorization Act of 1986			elayed Hazard - Yes			
(SARA)			ire Hazard - Yes Pressure Hazard - No			
SARA 302 Extremely hazardous	u hotopoo	No	Reactivity Hazard - No			
SARA 302 Extremely hazardous s		NO				
SARA 311/312 Hazardous chemic SARA 313 (TRI reporting)	a	Not regulate	ad			
Chemical Name	CAS number	% by wt.	eu.			
Isopropanol	67-63-0	11.4				
US STATE	07-03-0	11.4				
REGULATIONS						
US - California Hazardous Substa	ances (Director's):					
	ropanol (CAS 67-63-0)	Li	isted			
US - Illinois Chemical Safety Act:						
	ropanol (CAS 67-63-0)	Li	isted			
US - Louisiana Spill Reporting: L	,					
			isted			
US - Minnesota Haz Subs: Listed						
1,2-6	Propanediol (CAS 57-55-6)					
Isop	ropanol (CAS 67-63-0)	Li	isted			
US - New Jersey RTK - Substanc						
1,2-F	Propanediol (CAS 57-55-6)	Li	isted			
Isop						
US - Texas Effects Screening Lev	els: Listed substance					
1,2-6	Propanediol (CAS 57-55-6)	Li	isted			
Isop	ropanol (CAS 67-63-0)	Li	isted			
US. Massachusetts RTK - Substa	nce List					
	ropanol (CAS 67-63-0)	Li	isted			
US. New Jersey Worker and Com						
	ropanol (CAS 67-63-0)	Li	isted			
US. Pennsylvania Worker and Co						
	Propanediol (CAS 57-55-6)	Li	isted			
•	ropanol (CAS 67-63-0)					
US. Rhode Island RTK						
	ropanol (CAS 67-63-0)	LI	isted			
US. California Proposition 65		N				
laurantem, status		IN	lot listed.			
Inventory status	Inventory name		On inventory (vec/ne)*			
Country(s) or region	Inventory name	21.)	On inventory (yes/no)*			
Canada Domestic Substances List (DSL)			No No			
Canada Non-Domestic Substances List (NDSL) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory						
	•					
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)						
governing country(s)						





the time of preparation of the SDS. However, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

SDS preparation date: 8-9-17 New format to SDS Changes since last

Replaces MSDS dated: May 26, 2015

revision:

