

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Shield-Brite[®] AP-40
Product Code: 10006
Product Use: Premier Shellac Coating for Apples
Product
Restrictions: For Agriculture Use Only
Manufacturer: Pace International, LLC
Address: 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:
 Physical, Flammable liquid, Category 3
 Health hazards,
 Eye Damage/Irritation, Category 2A
 Environmental hazards, Not classified

Hazard Symbols:



Signal Word:

WARNING

Hazard Statements:

H226 Flammable liquid and vapor.
 H319 Causes serious eye irritation.

Other Hazards:

Hazard(s) not otherwise classified (HNOC):

Supplemental information

Precautionary Statements

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/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective clothing, chemical resistant gloves, and safety glasses.

Response Statements:

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.
 P370/378 In case of fire: Use dry chemical, CO₂ to extinguish.

Storage Statements:

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

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

None known.

None known.

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Isopropyl Alcohol	67-63-0	16

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



4. FIRST AID MEASURES

General	Have the product container, label or Safety Data Sheet with you when calling a poison control center, physician, or going for treatment. You may also contact PROPHARMA (PROSAR)
Advice:	1-888-271-4649 for emergency medical treatment information.
If Inhaled:	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
If on Skin (or hair):	Take off immediately all contaminated clothing. Wash skin with plenty of soap and water/shower.
If in Eyes:	Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, after the first 5 minutes if present and easy to do, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.
If Ingested:	Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention.
Most important Symptoms / effects, acute and	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Delayed: Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
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. 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:	Flammable liquid and vapor.
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. 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.
Containment / Clean-Up Methods:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only



non-sparking tools. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. 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 discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. HANDLING & STORAGE

Precautions for safe handling: Do not handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Explosion-proof general and local exhaust ventilation. All equipment used when handling the product must be grounded. Take precautionary measures against static discharge. Use non-sparking tools and explosion-proof equipment. Avoid prolonged exposure. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Avoid contact with skin, eyes, or clothing. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities: Keep away from heat/sparks/open flames/hot surfaces. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry area at room temperature, well ventilated area, and away from direct sunlight. Keep in original container. Keep container tightly closed. 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 for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m ³ 400 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m ³ 500 ppm
	TWA	980 mg/m ³ 400 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/L	Acetone	Urine	*

Exposure guidelines

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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye fountain and washing facilities should be available.

Skin protection

Hand protection

Impervious gloves. Confirm with reputable supplier first.

Other

Use of protective clothing (long sleeve shirt and pants).



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. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance:	Amber	Vapor pressure:	Not available
Odor:	Alcoholic	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.01
pH:	7.7	Solubility:	Miscible with water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available
Pour Point	Not available	Auto-ignition temperature:	Not available
Initial boiling point and boiling range:	Not available	Decomposition temperature:	Not available
Flash point:	80°F (27°C)	Viscosity:	20 Ostwald
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 reactions:	Hazardous polymerization does not occur.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. 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	Inhalation. Eye, Skin contact, Inhalation, Ingestion.	
Information on likely routes of exposure		
Ingestion	May cause stomach distress, nausea or vomiting.	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact:	No adverse effects due to skin contact are expected.	
Eye contact:	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.	
Information on toxicological effects		
Acute toxicity		
Components	Species	Test Results
Isopropyl Alcohol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12,800 mg/kg, HSDB
Inhalation		
LC50	Rat	> 10000 ppm, 6 Hours, ECHA 16970 mg/l/4h, HMIRA



<i>Oral</i> LD50	Dog Mouse	4797 mg/kg, HSDB 3600 mg/kg, HSDB 5030 mg/kg, HSDB 5 g/kg, HDSB 5.8 g/kg, ECHA
Skin corrosion/irritation:	Rat	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation:		Causes serious eye irritation.
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:		See below
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
		Not Listed
Reproductive toxicity		This product is not expected to cause reproductive or developmental effects.
Teratogenicity:		Not available.
Specific target organ toxicity - single exposure:		Not classified.
Specific target organ toxicity - repeated exposure:		Not classified.
Aspiration hazard:		Material does not present an aspiration hazard.
Chronic effects:		Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
Isopropyl Alcohol (CAS 67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 1400 mg/L, 96 hours
Persistence/ degradability:			
No data is available on the degradability of this product.			
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 methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations:	Dispose of in accordance with local 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

Transport of Dangerous Goods (TDG) Proof of Classification In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)



DOT

UN number: UN1993
Proper shipping name: Flammable Liquid, n.o.s. (Isopropyl Alcohol)
Hazard class(es): 3
Packing group: III
Special provisions B1, B52, IB3, T4, TP1, TP29
Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

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)

Isopropyl Alcohol (CAS 67-63-0) Listed

US. 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 - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS #</u>	<u>% by wt.</u>
Isopropyl Alcohol	67-63-0	16

Other federal regulations

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.

US STATE REGULATIONS

US - California Hazardous Substances (Director's):

Isopropyl Alcohol (CAS 67-63-0) Listed

US - Illinois Chemical Safety Act: Listed substance

Isopropyl Alcohol (CAS 67-63-0) Listed

US - Louisiana Spill Reporting: Listed substance

Isopropyl Alcohol (CAS 67-63-0) Listed

US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed

Isopropyl Alcohol (CAS 67-63-0) Listed

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed

Isopropyl Alcohol (CAS 67-63-0) Listed

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed

Isopropyl Alcohol (CAS 67-63-0) Listed

US. Massachusetts RTK - Substance List

Isopropyl Alcohol (CAS 67-63-0) Listed



US. New Jersey Worker and Community Right-to-Know Act		
	Isopropyl Alcohol (CAS 67-63-0)	Listed
US. Pennsylvania Worker and Community Right-to-Know Law		
	1,2-Propanediol (CAS 57-55-6)	Listed
	Isopropyl Alcohol (CAS 67-63-0)	Listed
US. Rhode Island RTK		
	1,2-Propanediol (CAS 57-55-6)	Listed
	Isopropyl Alcohol (CAS 67-63-0)	Listed
US. California Proposition 65		
		Not listed

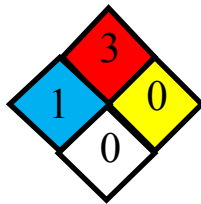
Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

HMIS Ratings:	Health – 1	Flammability – 3	Reactivity – 0
NFPA Ratings:			



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at 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:	April 3, 2019	Replaces SDS dated:	May 26, 2015
Version No.	2		
Changes since last revision:	All sections have had major changes		

