

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Shield-Brite® AP-34
Product Code: 10351
Product Use: Shellac Apple Coating for Global Markets
Product Restrictions: For Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information
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)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)
Supplier: See above

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 Hazards: Flammable liquid, Category 3
Health Hazards: Eye damage / irritation, Category 2B
Environmental Hazards: Not classified
Hazard Symbols:

Signal Word:
WARNING
Hazard Statements:
H226 Flammable liquid and vapor.
H320 Causes eye irritation.
Precautionary Statements:
Prevention Statements:
P210 Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. 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 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:
P370/378 In case of fire: Use dry chemical, CO₂ to extinguish.
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.
P337/317 If eye irritation persists: Get medical help.
Storage Statements:
P403/235 Store in a well-ventilated place. Keep cool.
Disposal Statements:
P501 Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.
Hazard(s) not otherwise classified (HNOC): None known.
Other Hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS #	%
Ethanol	64-17-5	10 – 30*
Shellac	9000-59-3	10 – 30*
Ammonium hydroxide	1336-21-6	0.1 – 1.0*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Composition comments: * US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. FIRST AID MEASURES

General Advice: 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 1-888-271-4649 for emergency medical treatment information.

Skin contact:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash before reuse. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact:	IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Ingestion:	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention if symptoms occur.
Most important Symptoms / effects, acute and delayed	Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and Symptoms may be delayed. Treat patient symptomatically.

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.
Special 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:	Firefighters must wear full protective clothing including self-contained breathing apparatus.
Firefighting 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.
Hazardous combustion products:	Flammable liquid and vapor. 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, vapors or sprays. 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).
Methods and Materials for Containment and Clean-Up:	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. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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. 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.
Environmental Precautions:	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING & STORAGE

Precautions for Safe Handling:	Do not handle, store or open near an open flame, sources of heat or sources
---------------------------------------	---

Conditions for Safe Storage, including any Incompatibilities:

of ignition. Protect material from direct sunlight. Avoid contact with eyes. Avoid breathing vapors or mists. Do not taste or swallow. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Wear appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Take off contaminated clothing and wash before reuse.

Keep out of reach of children. Store locked up. Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed in a cool, dry, well-ventilated area. Keep in an area equipped with sprinklers. Store indoors at temperatures above 40°F. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ammonium Hydroxide (CAS# 1336-21-6)	PEL	35 mg/m3 50 ppm
Ethanol (CAS# 64-17-5)	PEL	1900 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ammonium Hydroxide (CAS# 1336-21-6)	STEL	35 ppm
	TWA	25 ppm
Ethanol (CAS# 64-17-5)	TWA	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ammonium Hydroxide (CAS# 1336-21-6)	STEL	27 mg/m3 35 ppm
	TWA	18 mg/m3 25 ppm
Ethanol (CAS# 64-17-5)	TWA	1900 mg/m3 1000 ppm

**Biological Limit Values:
Appropriate engineering controls:**

No biological exposure limits noted for the ingredient(s). 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 wash station and washing facilities should be available.
Skin protection	
Hand protection:	Wear nitrile, neoprene, vinyl (PVC), or rubber gloves.
Other:	Wear protective clothing (long sleeved shirt, pants, and shoes).
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:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability or exposure limits:	Not available
Appearance / Color:	Clear amber, no particles.	Vapor pressure:	Not available
Odor:	Alcoholic	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.01
pH:	7 – 8	Solubility:	Miscible in water
Melting/Freezing point:	Not available	Partition coefficient	Not available

Pour Point:	Not available	(n-octanol-water):	
Initial boiling point and boiling range:	Not available	Auto-ignition temperature:	Not available
Flash point:	80.0°F (27°C) Closed cup	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	Not available
Flammability (solid, gas):	Not applicable	Explosive Properties:	Not explosive
		Oxidizing Properties:	Not oxidizing

10. STABILITY & REACTIVITY

Reactivity hazards:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. Do not mix with other chemicals.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Routes of exposure			Inhalation, Ingestion, Skin contact, Eye contact.
Information on likely routes of exposure			
Ingestion	May cause stomach distress, nausea or vomiting.		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Prolonged and repeated contact may dry skin and cause irritation.		
Eye contact	Causes eye irritation.		
Symptoms related to the physical, chemical and toxicological characteristics			
Irritation of eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.			
Information on toxicological effects			
Acute toxicity			
Components	Species	Test Results	
Ammonium Hydroxide (CAS# 1336-21-6)			
Acute			
Dermal			
LD50	Not available		
Inhalation			
LC50	Mouse	2115 ppm, 4 h, Cheminfo	
	Rat	2000 ppm, 4 h, Cheminfo	
Oral			
LD50	Rat	350 mg/kg, HSDB	
Ethanol (CAS# 64-17-5)			
Acute			
Dermal			
LD50	Rabbit	17100 mg/kg, ECHA	
Inhalation			
LC50	Rat	117 - 125 mg/L, 4 hours, ECHA	
Oral			
LD50	Rat	10470 mg/kg, ECHA	
Skin corrosion/irritation:			
Exposure minutes	Prolonged skin contact may cause temporary irritation.		
Erythema value	Not available		
Oedema value	Not available		
Serious eye damage/eye irritation:			
Corneal opacity value	Causes eye irritation.		
Iris lesion value	Not available		
Conjunctival reddening value	Not available		
Conjunctival oedema value	Not available		
Recover days	Not available		
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:			
Not classifiable as to carcinogenicity to humans.			
IARC Monographs. Overall Evaluation of Carcinogenicity			

Ethanol (CAS# 64-17-5) Volume 44, Volume 96, Volume 100E.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
 Not listed.

Reproductive toxicity:	Possible reproductive hazard.
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 Ecotoxicological data Components	See below Species	Test Results
Ammonium Hydroxide (CAS# 1336-21-6)		
Crustacea EC50	Daphnia	0.66 mg/L, 48 Hours
Aquatic		
Fish LC50	Western mosquitofish (Gambusia affinis)	15 mg/L, 96 hours
Ethanol (CAS# 64-17-5)		
Crustacea EC50	Daphnia	11744.5 mg/L, 48 Hours
Aquatic		
Crustacea EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/L, 48 hours
Fish LC50	Fathead minnow (Pimephales promelas)	> 100 mg/L, 96 hours
Persistence/ degradability:	No data is available on the degradability of this product.	
Bioaccumulative potential:	Not available	
Mobility in soil:	Not 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:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Disposal should be made in accordance with applicable regional, national and local laws and regulations.
Local disposal Regulations	Dispose of in accordance with local regulations.
Hazardous waste code	This product in its original form and concentration, would not designate as a US federal hazardous waste when disposed.
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	Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.
U.S. Department of Transportation (DOT)	DOT
UN number:	UN1993
Proper shipping name:	Flammable Liquid, n.o.s. (Ethanol)
Hazard class(es):	3
Packing group:	III

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)		
	Ammonium Hydroxide (CAS# 1336-21-6)	Listed
SARA 304 Emergency Release Notification		
	Ammonium Hydroxide (CAS# 1336-21-6)	100 lbs

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

Yes

Classified Hazard Categories

Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

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)

Ammonium Hydroxide (CAS# 1336-21-6)

US STATE REGULATIONS

US - California Hazardous Substances (Director's): Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

Listed

Ethanol (CAS# 64-17-5)

Listed

US - Illinois Chemical Safety Act: Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

Ethanol (CAS# 64-17-5)

US - Louisiana Spill Reporting: Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

Listed

Ethanol (CAS# 64-17-5)

Listed

US - Minnesota Haz Subs: Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

Listed

Ethanol (CAS# 64-17-5))

Listed

US - North Carolina Toxic Air Pollutants: Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

US - Texas Effects Screening Levels: Listed substance

Ammonium Hydroxide (CAS# 1336-21-6)

Listed

Ethanol (CAS# 64-17-5)

Listed

US. Massachusetts RTK - Substance List

Ammonium Hydroxide (CAS# 1336-21-6)

Ethanol (CAS# 64-17-5)

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

Ammonium Hydroxide (CAS# 1336-21-6)

Ethanol (CAS# 64-17-5)

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

Ammonium Hydroxide (CAS# 1336-21-6)

Ethanol (CAS# 64-17-5)

US. Rhode Island RTK

Ammonium Hydroxide (CAS# 1336-21-6)

Ethanol (CAS# 64-17-5)

US. California Proposition 65

Ethanol is not considered to be a Prop 65 component for this product. The product is not an alcoholic beverage for consumption.

Inventory status

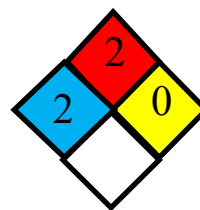
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. OTHER INFORMATION

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



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 are set forth on the labeling and the SDS.

SDS preparation date: September 23, 2025

Replaces SDS dated: December 5, 2023

Changes since last Rebranding

Version: 3

revision: