

Material Safety Data Sheet

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Product Identification

Product Name: AV-222 CLEANER

Composition/Ingredient Information

Ingredient Name / CAS Number	Exposure Limits	Concentration
Methyl Alcohol CAS #67-56-1	OSHA PEL: 200 ppm ACGIH TWA: 200 ppm	Trade Secret
Water CAS #7732-18-5	OSHA PEL: Not Determined ACGIH TWA: Not Determined	Trade Secret
Potassium Hydroxide CAS #1310-58-3	OSHA PEL: Not Listed ACGIH STEL: 2.0 ppm	Trade Secret

Hazards Information

Primary Route(s) of Entry: Eye, skin absorption and inhalation.

Health Hazards: Chronic exposure; prolonged skin contact may cause severe irritation. Preexisting skin, eye, and respiratory conditions may be aggravated by exposure to this product. Ingestion may be toxic.

Eye Contact: Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness, hazy vision, and pain. Continued exposure may cause eye lesions.

Skin Contact: Corrosive. Irritating due to the defatting action of the skin. Causes redness, pain, drying and cracking of the skin. Skin absorption may occur; symptoms may parallel inhalation exposure.

Ingestion: Toxic. Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose 100-125 milliliters.

Inhalation: A slight irritant to the mucous membranes. Toxic effects exerted upon the nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A victim's physical symptoms may temporarily improve only to decline at or near 30 hours later.

First Aid Measures

Eyes: Immediately flush with water for a minimum of 15 minutes. Get immediate medical attention.

Skin: Remove contaminated clothing; flush the skin with water for a minimum of 15 minutes. Wash thoroughly with soap and water. Get medical attention immediately. Wash clothing and thoroughly clean shoes before reuse.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion: Induce vomiting immediately, as directed by medical personnel. Get medical attention immediately. (Never give anything by the mouth to an unconscious or convulsing person.)

Fire and Explosion Hazards

Flash Point: 54 °F (12°C) CC

Flammable Limits: LEL: 6.0% UEL: 36%

Extinguishing Media: Dry chemical, alcohol foam, carbon dioxide, or water. Water may be ineffective.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: This material will form vapors when above flash point. These vapors can travel along surfaces to a distant ignition source and flash back. Sealed containers may rupture when heated.

Accidental Release Measures

Spill or Leak Procedures: Ventilate area of spill or leak. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary personnel from entering the area. Contain and recover the liquid where possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to the sewer!

Handling and Storage

Storage: Protect against physical damage. Store in a cool dry well ventilated area, away from any area where fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be grounded and bonded during any transfers to avoid static sparks.

Handling: Use only in well ventilated areas, unless used with recommended respiratory protection. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids); observe all warnings and precautions listed for the product.

Exposure Controls and Personal Protection

Respiratory Protection: If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full face respirator, air-lined hood, or full face piece self contained breathing apparatus. Breathing air quality must meet the requirements of OSHA respiratory protection standard (29CFR1910.134). This substance has poor warning properties. Ventilation: Mechanical general/local exhaust to control vapor or mist below maximum exposure limits. Please refer to the ACIGH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details. Use explosion proof equipment.

Protective Clothing: Wear impervious clothing, including boots, gloves, lab coat, apron or coveralls.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain an eye wash fountain and quick drench facilities in the work area.

Other Protective Equipment: Use impervious rubber gloves and boots.

Work/Hygienic Practices: Wash with soap and water after handling. Remove contaminated clothing and wash before next use.

Physical and Chemical Properties

Appearance and Odor: Colorless Liquid, faint odor

Boiling Point: 212°F (100°C) @ 760 mm Hg

Vapor Pressure (mm Hg @ 20°C): ~ 97

Vapor Density: ~1.1

Specific Gravity (water=1): ~1.0 @ 20°C/4°C

Melting Point: 32°F (0°C)

Evaporation Rate (butyl acetate): ~5.9

Solubility in Water: Soluble

Stability and Reactivity

Stability: Stable under normal storage and handling conditions.

Incompatibility (materials to avoid): Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid, acids, chlorine and halogenates. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum to generate hydrogen gas.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, and formaldehyde may form when heated to decomposition.

Polymerization: will not occur.

Toxicological Information

Oral (rat) LD₅₀: 5628 mg/kg
 Skin (rabbit) LD₅₀: 15800 mg/kg
 Carcinogenicity: No
 IARC monographs: None
 Teratogenicity: None
 Reproductive Toxicity: None
 Mutagenicity: None
 Synergistic products: None
 OSHA regulated: No

Inhalation (rat) LC₅₀: 64000 mg/m³

Ecological Information

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into the groundwater. When released into the soil, this material is expected to evaporate quickly. When released into water this material is expected to readily biodegrade. This material is expected to be slightly toxic to aquatic life.

Disposal Considerations

Processing, use, or contamination of this product may change waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

Transport Information

Proper Shipping Name: Flammable Liquids, corrosive, n.o.s. (contains: Methanol & Potassium Hydroxide)
 DOT Hazard Classification: 3
 UN/NA Number: UN2924
 Packaging Group: II
 Freight Class:
 DOT Labels Required: 3
 DOT Placards Required: 3

Regulatory Information

	TSCA	SARA 302		SARA 313	CERCLA	RCRA	TSCA
		RQ	TPQ	LIST		261.33	8(d)
Methanol (67-64-1):	YES	NO	NO	YES	5000	U154	YES
Potassium Hydroxide (1310-58-3):	NO	NO	NO	NO	NO	NO	YES

EPA/RCRA: When product is expired or deemed a waste/non-useable: U154, D001; ignitable characteristic waste

Other Information

The information on this MSDS is accurate to the best of Avanti International's knowledge. Avanti International makes no expressed or implied warranty, and in no case shall be liable for consequential, special, or indirect damages resulting from the use or handling of this product.