

AV-102 Catalyst AP
MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-102 Catalyst AP
CLASSIFICATION: Catalyst

MANUFACTURER
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2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
Ammonium Persulfate CAS #7727-54-0	OSHA PEL: Not established ACGIH TLV: 5mg/m3	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Chronic exposure; prolonged skin contact may cause an allergic reaction with dermatitis.

EYE CONTACT: Exposure can cause severe irritation and burning of the eyes.

SKIN CONTACT: Corrosive. Exposure can cause skin burns.

INGESTION: Corrosive. May produce abdominal pain, nausea, and vomiting.

INHALATION: Exposure may irritate the mucous membranes. May cause lung edema. Symptoms may include sore throat, shortness of breath, inflammation of the nasal passages, coughing, and wheezing. Any exposure may cause an allergic reaction. Asthma-like symptoms and life-threatening shock may result.

4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes. Get medical attention.

SKIN: Wash thoroughly with soap and water, flushing for at least 15 minutes. Remove all contaminated clothing and wash or clean prior to reuse. Immediately consult a physician.

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

INGESTION: Do NOT induce vomiting. Rinse mouth vigorously. Give large quantities of water to drink. Keep person warm and seek medical attention. Never give anything by mouth to an unconscious or convulsing person.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Use any means suitable for the surrounding fire, do not use water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Sealed containers may rupture when heated.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not combustible but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Heating or contact with water releases oxygen, which may intensify combustion, in an existing fire. The substance poses an explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Wear appropriate personal protective equipment. Spilled material should be collected and put in approved DOT container and isolated for disposal. Isolated material should be monitored for signs of decomposition (fuming/smoking). If spilled material is wet, dissolve with large quantity of water and dispose as a hazardous waste.

ENVIRONMENTAL: Do not allow material to contaminate surface or ground water. Prevent product from entering drains.

7. HANDLING AND STORAGE

HANDLING: Use only in well ventilated areas, unless used with recommended respiratory protection. Use clean plastic or stainless steel scoops only.

STORAGE: Store unopened in a cool, clean, dry place away from point sources of heat, e.g. radiant heaters or steam pipes. Use first in, first out storage system. Avoid contamination of opened product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: General and/or local exhaust ventilation that airborne concentrations remain below the maximum exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles and/or face shield to avoid splashing on face. Wear head covering which completely protects the head and neck.

SKIN: Wear chemically resistant boots, gloves, and chemical suit (Tychem or equivalent).

RESPIRATORY: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved full-face piece respirator, half-face piece respirator with splash goggles, or powered, filtered air-supplied hood.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash fountain and quick drench facilities in close proximity to points of potential exposure.

HYGIENE PRACTICES: Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White odorless crystals

pH: Typically 4.0 (1% solution)

BOILING POINT: Not applicable

EVAPORATION RATE: Not applicable

MELTING POINT: Decomposes

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SOLUBILITY IN WATER: 85 % by wt @ 25°C (77° F)

10. STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers under normal conditions.

CONDITIONS TO AVOID: Heat, moisture and contamination.

MATERIALS TO AVOID: Acids, alkalis, halides (fluorides, chlorides, bromides and iodides), combustible materials, most metals and heavy metals, oxidizable materials, other oxidizers, reducing agents, cleaners, and organic or carbon containing compounds. Contact with incompatible materials can result in a material decomposition or other uncontrolled reactions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen that supports combustion and oxides of sulfur and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: N/A

ACUTE ORAL LD50 (rat) 700 mg/kg (female) 742 mg/kg (male)

ACUTE DERMAL LD50 (rabbit) 2,000 mg/kg

12. ECOLOGICAL INFORMATION

LC50

Bluegill Sunfish: 103 mg/L

Rainbow Trout: 76.3 mg/L

Daphnia: 120 mg/L

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Ammonium Persulfate

HAZARD CLASS: 5.1

UN NUMBER: 1444

PACKING GROUP: III

LABEL: 5.1

PLACARD: 5.1 (Oxidizer)

NMFC (NATIONAL MOTOR FREIGHT CARRIERS)

FREIGHT CLASS: 65

15. REGULATORY INFORMATION

SARA TITLE III

SECTION 302: Not listed

SECTION 311: Fire hazard, immediate (acute) health hazard

SECTION 313: Not listed

TSCA REGULATORY: All components of this product are either on the TSCA Inventory or exempt.

RCRA STATUS: Hazardous waste, if discarded.

HAZARDOUS WASTE: D001

CERCLA: Unlisted

16. 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.