

**Material Safety Data Sheet****SUPPLIER**

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**Product Identification**

Product Name: AV-351 ACCELERATOR

**Composition/Ingredient Information**

Ingredient Name / CAS Number	Exposure Limits	Concentration
Isopropanol CAS #67-63-0	OSHA PEL: 400 ppm ACGIH TLV: 400 ppm	Trade Secret

**Hazards Information**

Primary Route(s) of Entry: Skin absorption, eye contact, and inhalation.

Health Hazards: Chronic exposure; prolonged skin contact may aggravate preexisting skin, liver, kidney, and respiratory conditions.

Eye Contact: Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness, and pain.

Skin Contact: Mild irritation to the skin including redness, burning, drying and cracking of the skin.

Ingestion: Can cause gastrointestinal irritation with nausea, headache, and unconsciousness.

Inhalation: Inhalation of vapors can cause nasal and respiratory irritation; effects to the central nervous system, including dizziness, drowsiness, weakness, fatigue, nausea, vomiting, and diarrhea. May cause kidney damage and central nervous system depression including, drowsiness, fatigue, headache, and unconsciousness.

**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 if irritation develops. 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: If swallowed, vomiting may occur spontaneously, but do not induce vomiting unless directed by medical personnel. (Never give anything by the mouth to an unconscious or convulsing person.)

**Fire and Explosion Hazards**

Flash Point: 53°F (11.6°C) CC

Flammable Limits: LEL: 2.06% UEL: 12.08%

Extinguishing Media: Dry chemical, alcohol foam, carbon dioxide.

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 saw dust. 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:** Wear NIOSH/MSHA approved supplied air respirator or self-contained breathing apparatus when airborne concentrations are unknown or exceed permissible limits. Half face organic vapor respirators may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face organic vapor respirator may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Air purifying respirators do not protect workers in oxygen deficient atmospheres. **Ventilation:** Mechanical general/local exhaust to control vapor or mist below maximum exposure limits.

**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:** Transparent red liquid, strong alcohol odor.

**Boiling Point:** 180°F (82.2°C @ 760 mm Hg)

**Vapor Pressure (mm Hg @ 20°C):** 33.0

**Vapor Density:** 2.070

**Specific Gravity (water=1):** 0.789 @ 15.5°C

**Melting Point:** Not Determined

**Evaporation Rate (butyl acetate):** ca. 7.70

**Solubility in Water:** Completely soluble

**Stability and Reactivity**

**Stability:** Stable under normal storage and handling conditions.

**Incompatibility (materials to avoid):** Acetaldehyde, acids, chlorine, ethylene oxide, isocyanates, and strong oxidizing agents. Do not use with aluminum equipment at temperatures greater than 120°F (48.8°C).

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

**Polymerization:** will not occur.

**Toxicological Information**

**Oral rat LD<sub>50</sub>:** 5800 mg/kg

**Inhalation rat LC<sub>50</sub>:** 50, 1000 mg/m<sup>3</sup>

**Carcinogenicity:** No However, acetone is being investigated as a tumorigen, mutagen, and reproductive effector.

**IARC monographs:** None

**Teratogenicity:** None

**Reproductive Toxicity:** None

**Mutagenicity:** None

**Synergistic products:** None

**OSHA regulated:** No

**Ecological Information**

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material is expected to leach into the groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water this material is expected to quickly evaporate. When released to water, this material is expected to have a half life between one and ten days. When released to water, this material is expected to biodegrade to a moderate extent. This material is not expected to bio-accumulate. The LC50/96 hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

**Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be handled as a Hazardous Waste ( D001) and sent to a RCRA approved waste facility. 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: Isopropanol  
 DOT Hazard Classification: 3  
 UN/NA Number: UN1219  
 Packaging Group: II  
 Freight Class:  
 DOT Labels Required: 3  
 DOT Placards Required: 3

**Regulatory Information**

	TSCA	SARA 302 RQ	SARA 302 TPQ	SARA 313 LIST	CERCLA	RCRA 261.33	TSCA 8(d)
Isopropanol CAS #(67-63-0):	No	No	No	Yes	No	No	No

EPA/RCRA: when product is expired or deemed a waste/non-useable: 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.