

AV-208 Technical Grade Acetone™

SECTION 1. IDENTIFICATION

Product Identifier	AV-208 Technical Grade Acetone
Other Means of Identification	Moisture removing solvent
Recommended Use	Industrial Use Only.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	Avanti International, 822 Bay Star Blvd, Webster, TX, 77598, USA, 281.486.5600, avantigrout.com
Emergency Phone No.	ChemTrec, 800.424.9300
Date of Preparation	April 11, 2018

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Flammable liquid - Category 2; Eye irritation - Category 2; Specific target organ toxicity (single exposure) - Category 3

Label Elements



Signal Word:

Danger

Hazard Statement(s):

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statement(s):

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, and lighting equipment.

P242 Use non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands and skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1

Date of Preparation: April 11, 2018

Date of Last Revision: May 14, 2018

Page 01 of 07

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

In use may form flammable/explosive vapour-air mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Acetone	67-64-1	100	Propanone	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with water.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth with water.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Not applicable.

Immediate Medical Attention and Special Treatment

Target Organs

Nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1

Date of Preparation: April 11, 2018

Date of Last Revision: May 14, 2018

Page 02 of 07

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Can be ignited by static discharge. May travel a considerable distance to a source of ignition and flash back to a leak or open container. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard.

Very toxic carbon monoxide, carbon dioxide; very toxic, flammable formaldehyde; corrosive acetic acid.

Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution. Evacuate area. Fight fire from a safe distance or a protected location. Use water spray to dilute spills to non-flammable mixtures. Knock down vapours or gases with water fog or fine water spray.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate downwind locations. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment. May collect in hazardous amounts, at ceilings and at the top of confined spaces, if ventilation is not sufficient. Monitor area for flammable or explosive atmosphere.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Dike spilled product to prevent runoff. Knock down vapour with fog or fine water spray. Store recovered product in suitable containers that are: covered, water-filled.

Other Information

Contact supplier, local fire and emergency services for help.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing in this product. Avoid repeated or prolonged skin contact. Do not get in eyes. Avoid generating vapours or mists. Prevent uncontrolled release of product. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid heating that will increase the amount of vapours. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Electrically bond and ground equipment. Ground clips must contact bare metal. Increase conductivity by reducing flow rate in transfer operations. Use non-sparking tools. Wear personal protective equipment to avoid direct contact with this chemical.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, an approved, fire-resistant area, secure and separate from work areas, separate from incompatible materials (see Section 10: Stability and Reactivity), on the ground floor or preferably, in an isolated, detached building, clear of combustible and flammable materials (e.g. old rags, cardboard).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Acetone	250 ppm A4	500 ppm C A4	1000 ppm			

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1

Date of Preparation: April 11, 2018

Date of Last Revision: May 14, 2018

Page 03 of 07

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit. A4 = Not classifiable as a human carcinogen. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

Appropriate Engineering Controls

General ventilation is usually adequate. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Wear a chemical splash suit and respiratory protection.

Suitable materials are: butyl rubber, nitrile rubber, Barrier® (PE/PA/PE), Silver Shield®, Saranex®, ChemMAX® 3.

Respiratory Protection

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge. Either full-face piece or half-face piece with splash goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear colourless volatile liquid. Particle Size: Not available
Odour	Sweet
Odour Threshold	33 - 699 ppm (recognition)
pH	Not available
Melting Point/Freezing Point	-138.5 °F (-94.7 °C) (melting); Not available (freezing)
Initial Boiling Point/Range	133.2 °F (56.2 °C)
Flash Point	-4 °F (-20 °C) (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	12.8% (upper); 2.5% (lower)
Vapour Pressure	230.03 - 231.98 mm Hg (30.67 - 30.93 kPa) at 77 °F (25 °C)
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.785 at 77 °F (25 °C)
Solubility	Soluble in all proportions in water; Soluble in all proportions in common organic solvents.
Partition Coefficient, n-Octanol/Water (Log Kow)	-0.24
Auto-ignition Temperature	869 °F (465 °C)
Decomposition Temperature	Not available
Viscosity	0.39 mm ² /s at 77 °F (25 °C) (kinematic); 0.32 centipoises at 77 °F (25 °C) (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	C ₃ H ₆ O
Molecular Weight	58.08
Bulk Density	Not available
Surface Tension	Not available

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1
Date of Preparation: April 11, 2018
Date of Last Revision: May 14, 2018

Critical Temperature	Not available
Electrical Conductivity	5.5-6 x 10(6) pS/m
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	30.53 - 30.27% at 77 °F (25 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Accumulation of static charge. Open flames, sparks, static discharge, heat and other ignition sources. Sunlight.

Incompatible materials.

Incompatible Materials

Reacts explosively with: strong oxidizing agents (e.g. perchloric acid), oxidizing agents (e.g. peroxides), organic acids (e.g. acetic acid). Reacts violently with: strong acids (e.g. hydrochloric acid), strong reducing agents (e.g. hydrides), halogenated compounds (e.g. trichloroethylene).

Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; very toxic, flammable formaldehyde; corrosive acetic acid.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Acetone	30000 ppm (male rat) (4-hour exposure)	5800 mg/kg (female rat)	> 15800 mg/kg (rabbit)

Skin Corrosion/Irritation

Animal tests show very mild irritation.

Serious Eye Damage/Irritation

Animal tests show serious eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Causes depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

May be harmful based on animal tests.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

If swallowed: may cause harmful effects on the kidneys.

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1
 Date of Preparation: April 11, 2018
 Date of Last Revision: May 14, 2018

Respiratory and/or Skin Sensitization

Not a skin sensitizer. Not a respiratory sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity**Development of Offspring**

Studies in people show effects on the unborn child. Conclusions cannot be drawn from the limited studies available.

Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations. Treat waste in an approved waste disposal facility. Burn in an approved incinerator according to federal, provincial/state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1090	ACETONE	3	II
US DOT	1090	ACETONE	3	II

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1

Date of Preparation: April 11, 2018

Date of Last Revision: May 14, 2018

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

B2 - Flammable Liquid; D2B - Toxic (Eye irritant)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 1	Flammability - 3	Instability - 0
SDS Prepared By	Avanti International		
Date of Preparation	April 11, 2018		
Date of Last Revision	May 14, 2018		
Revision Indicators	Not applicable.		

Product Identifier: AV-208 Technical Grade Acetone - Ver. 1
Date of Preparation: April 11, 2018
Date of Last Revision: May 14, 2018