

# Material Safety Data Sheet

Revision Date: 05/31/06



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## I. PRODUCT IDENTIFICATION

**Catalog Number / Product Name:** 30208, 30208-5XX, & 30308 / Aviation Gas Standard  
**Revision Number:** 3  
**Prior Version Date:** 02/28/05  
**Intended use:** For Laboratory use only

## II. COMPOSITION/INFORMATION ON INGREDIENTS AND CONTROL PARAMETERS:

Chemical Name	CAS #	% Composition	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limits
methanol	67-56-1	95.000000	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
gasoline, automotive, unleaded	8006-61-9	5.000000	ND		No TLV	No PEL established

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Inhalation, Contact, Ingestion  
**Target Organs Potentially Affected by Exposure:** skin, eyes, CNS, GI tract, respiratory system  
**Chemical Interactions That Change Toxicity:** None Known

### Immediate (Acute) Health Effects by Route of Exposure:

**Inhalation Irritation:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.  
**Inhalation Toxicity:** Harmful! Can cause systemic damage (see "Target Organs") Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.  
**Skin Contact:** Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.  
**Eye Contact:** Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.  
**Ingestion Irritation:** Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Highly toxic and may be fatal if swallowed.  
**Ingestion Toxicity:** Toxic if swallowed. May cause target organ failure and/or death.

### Long-Term (Chronic) Health Effects:

**Carcinogenicity:** No data.  
**Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.  
**Inhalation:** Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")  
**Skin Contact:** Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.  
**Ingestion:** Toxic if swallowed. May cause target organ failure and/or death.

## IV. FIRST-AID MEASURES

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<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
<b>Eyes:</b>	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.
<b>Notes to Doctor:</b>	No additional first aid information available

## V. FIRE FIGHTING MEASURES

<b>Flammability Summary:</b>	<b>Extremely Flammable</b>
<b>Extinguishing Media:</b>	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
<b>Fire and/or Explosion Hazards:</b>	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back
<b>Fire Fighting Methods and Protection:</b>	Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide
<b>Flash Point:</b>	<b>11 deg. C</b>
<b>Autoignition Temperature:</b>	464 deg. C
<b>Upper Flammable/Explosive Limit, % in air:</b>	36.0
<b>Lower Flammable/Explosive Limit, % in air:</b>	6.0

## VI. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions and Equipment:</b>	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
<b>Methods for Clean-up:</b>	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## VII. HANDLING AND STORAGE

<b>Handling Technical Measures and Precautions:</b>	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
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## Storage Technical Measures and Conditions:

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition  
Freezer.

## Recommended storage:

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Measures:</b>	Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
<b>Respiratory Protection:</b>	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section III, provide respiratory protection. Respiratory protection may be required in addition to ventilation depending upon conditions of use.
<b>Eye Protection:</b>	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
<b>Skin Protection:</b>	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
<b>Gloves:</b>	No information available

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Odor:</b>	Mild
<b>Solubility in Water:</b>	Moderate; 50-99%
<b>Vapor Density:</b>	1.1 (air = 1)
<b>Melting Point:</b>	-98 °C Melting Point
<b>Specific Gravity:</b>	0.791-0.792 g/cm3 at 20 °C

## X. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Materials to Avoid/Chemical Incompatibility:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, Carbon monoxide

## XI. TOXICOLOGICAL INFORMATION

### Component Toxicology Data (NIOSH):

Chemical Name	CAS Number	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat: 64000 ppm/4H; Oral LD50 Rat: 5628 mg/kg; Dermal LD50 Rabbit: 15800 mg/kg
Gasoline	8006-61-9	Inhalation LC50 Rat: 300 g/m3/5M

### Component Carcinogenic data (OSHA):

Chemical Name	CAS Number	
Gasoline	8006-61-9	Present

## XII. ECOLOGICAL INFORMATION

<b>Overview:</b>	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
<b>Mobility:</b>	No data
<b>Persistence:</b>	No data
<b>Bioaccumulation:</b>	No data
<b>Degradability:</b>	Biodegrades slowly.
<b>Ecological Toxicity Data:</b>	0

## XIII. DISPOSAL CONSIDERATIONS

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**Waste Description for Spent Product:**

Spent or discarded material is a hazardous waste.

**Disposal Methods:**

Dispose of by incineration following Federal, State, Local, or Provincial regulations.

## XIV. TRANSPORTATION INFORMATION

**DOT Basic Description:** Flammable liquids, n.o.s. (Methanol)  
**UN Number:** 1993  
**Hazard Class:** 3  
**Packing Group:** II

**IATA Basic Description:** Flammable liquids, n.o.s. (Methanol)  
**IATA UN Number:** 1993  
**IATA Hazard Class:** 3  
**IATA Packing Group:** II

## XV. REGULATORY INFORMATION

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
gasoline, automotive, unleaded	8006-61-9	-	-	-	X

**The following chemicals are listed on CA Prop 65:**

Chemical Name	CAS #	Regulation
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**State Right To Know Listing:**

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
gasoline, automotive, unleaded	8006-61-9	X	X	-	X

## XVI. ADDITIONAL INFORMATION

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