

APG**Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714
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Section I: Product Identification

CATALOG NUMBER: 4320,4322, 224320	PRODUCT NAME: GRO (Wisconsin)
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Section II - Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
Methanol	67-56-1	200 ppm	>98%
A table of the compounds possible in this volatiles analytical standard is attached. Data included in the table are formulas, CAS numbers, oral LD50 values for rats and PEL/TWA values if available. Total concentration of volatile compounds in the standard is less than 2% with individual compound concentrations of less than 0.1%.			

Section III - Physical/Chemical Characteristics of Hazardous Ingredients**Methanol**

BOILING POINT: 65 C (149 F) @ 760 mmHg	SPECIFIC GRAVITY: (H20=1) 0.79
VAPOR PRESSURE: 97 mm @ 20 C	SOLUBILITY IN WATER: Complete
APPEARANCE/ODOR: Clear, colorless liquid with a pungent odor (methanol).	

Section IV - Fire and Explosion Hazard Data

FLASH POINT (Method used): 12 C (54 F) CC	AUTO IGNITION TEMPERATURE: 463 C (867 F)	FLAMMABLE LIMITS	LEL 6%	UEL 36%
EXTINGUISHING MEDIA: Use extinguisher media appropriate for surrounding fire since sample is small. Alcohol foam, dry chemical or carbon dioxide (water may be ineffective in most laboratory situations).				
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire. Burns with a clear, almost invisible flame.				

Section V - Reactivity Data

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: Heat, flame, other sources of ignition.
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents, strong acids, zinc, aluminum, magnesium.			
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, formaldehyde.			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid: None Known

Section VI - Health Hazard Data

ROUTES OF ENTRY	Inhalation? YES	Skin? YES	Ingestion? YES
HEALTH HAZARDS (Acute and Chronic): ACUTE: Yes, see chronic symptoms. CHRONIC: Yes, methanol ingestion may be fatal or cause blindness, headache, nausea, vomiting, dizziness, gastrointestinal irritation, central nervous system depression, hearing loss.			
COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: None listed in IARC Monograph.			
SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, nose, throat and headache. Prolonged contact may cause dermatitis. Exposure effects may differ			

between individuals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Eye disorders, skin disorders, liver or kidneys disorders.

EMERGENCY AND FIRST AID PROCEDURES: Seek medical assistance for treatment, observation and support if necessary. EYE CONTACT: Flush with water, obtain medical attention. SKIN CONTACT: Wash with soap and water, use protective creams. INHALATION: Remove to fresh air, if not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. INGESTION: If conscious, give water and baking soda, induce vomiting. Obtain medical assistance immediately.

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: (Sample) shut off ignition sources. No flares, smoking or flames in area. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations. Excess sample should be placed in a proper waste solvent container.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container tightly closed, store in a cool, dry, well ventilated, flammable liquid storage area.

OTHER PRECAUTIONS* Do not heat or evaporate sample to dryness.

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): (Methanol) MSHA/NIOSH approved respirator with organic vapor cartridge, required if airborne concentration exceeds TWA of 200 ppm.

VENTILATION: Local exhaust. General or local exhaust to meet TLV regulations.

PROTECTIVE GLOVES: Rubber gloves recommended.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Impervious clothing

EMERGENCY WASH FACILITIES: Maintain eye wash and quick drench showers in work area.

The information stated in this Material Safety Data Sheet (MSDS) is believed to be correct on the date of publication and must not be considered all conclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. Persons not specifically and properly trained should not handle this chemical or its container. This MSDS is provided without any warranty expressed or implied, including merchantability or fitness for any particular purpose.

This product is furnished for laboratory use ONLY! Our standards may not be used as drugs, cosmetics, agricultural or pesticidal products, food additives or as house hold chemicals.

* Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Environmental Protection Agency, and others) may have specific regulations concerning the transportation, handling, storage or use of this product which may not be contained herein. The customer or user of this product should be familiar with these regulations.

Hazardous components of the GRO (Wisconsin) Standard

CHEMICAL	CAS #	% by WEIGHT	LD50
Methyl-t-butyl ether	1634-04-4	<0.2%	Not Available
1,2,4-Trimethylbenzene	95-63-6	<0.2%	Not Available
1,3,5-Trimethylbenzene	108-67-8	<0.2%	Not Available
Ethylbenzene	100-41-4	<0.2%	3500 mg/kg
Benzene	71-43-2	<0.2%	4894 mg/kg
Toluene	108-88-3	<0.2%	7000 mg/kg
m-Xylene	108-38-3	<0.2%	5 gm/kg
p-Xylene	106-42-3	<0.2%	5 gm/kg
o-Xylene	95-47-6	<0.2%	1364 mg/kg
Naphthalene	91-20-3	<0.2%	Not Available