

**APG****Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714  
740-423-4200 800-272-4442 Fax 740-423-5588**Material Safety Data Sheet**

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Page 1

**Section I: Product Identification**

CATALOG NUMBER: 5210, 5212	PRODUCT NAME: Glyphosate
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**Section II - Hazardous Ingredients/Identity Information**

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
No hazardous component greater than 1% by weight.			

**Non-Hazardous Ingredients/Identity Information**

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
Distilled Water	7732-18-5	none	99.94%
Glyphosate	1071-83-6	N/A	0.02%

\* Components are calculated on a weight/weight basis.

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

BOILING POINT: 100 C	SPECIFIC GRAVITY: 0.999868	
VAPOR PRESSURE: Unknown	SOLUBILITY IN WATER: N/A	APPEARANCE/ODOR: Clear/none

**Section IV - Fire and Explosion Hazard Data**

FLASH POINT (Method used): N/A	AUTO IGNITION TEMPERATURE: N/A	FLAMMABLE LIMITS	LEL N/A	UEL N/A
EXTINGUISHING MEDIA: Dry chemical, CO2, Foam				
SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, wear self-contained breathing apparatus and protective clothing.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A				

**Section V - Reactivity Data**

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: None
INCOMPATIBILITY (Materials to avoid): N/A			
HAZARDOUS DECOMPOSITION PRODUCTS: N/A			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid: None

**Section VI - Health Hazard Data**

<b>ROUTES OF ENTRY</b>	Inhalation? Yes	Skin? Yes	Ingestion? Yes
HEALTH HAZARDS (Acute and Chronic): None			
COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: N/A			

SIGNS AND SYMPTOMS OF EXPOSURE: None
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: If inhaled, remove to fresh air. Have trained person administer oxygen and CPR if needed. Contact a physician immediately. INGESTION: Contact a Poison Control Center for assistance. Never give anything by mouth to a victim unconscious or having convulsions. Contact a physician immediately. EYES: Remove contact lenses if present. Hold eyelids open and irrigate with large volumes of water for 15 min. Seek medical treatment. SKIN: Immediately wash with soap and water. Continue rinsing with large volumes of water for 15 min. Remove contaminated clothing. Seek physician immediately

## Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear personal protective equipment. Absorb small spills on paper, vermiculite, or other absorbent. Collect and store in closed container for disposal.
WASTE DISPOSAL METHOD: Incinerate at an approved facility in accordance with federal, state, and local regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep in a tightly closed container at all times. Store in a cool, dry place. Protect from temperature extremes and direct sunlight. Store in an explosion proof refrigerator at 4 C.
OTHER PRECAUTIONS* None

## Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): Follow NIOSH and equipment manufacturer's recommendations to determine appropriate respirator.	
VENTILATION: Use in an area provided with general and local exhaust ventilation meeting OSHA requirements.	
PROTECTIVE GLOVES: Chemical Resistant.	EYE PROTECTION: Safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT: Protective clothing meeting laboratory safety requirements.	
EMERGENCY WASH FACILITIES:	

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.