

APG**Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714
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CATALOG NUMBER: 5420, 5422	PRODUCT NAME: Haloacetic Acids
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Section II - Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
MTBE	1634-04-4	NA	>99%
Bromochloroacetic Acid	5589-96-3	NA	<1%
Dibromoacetic Acid	631-64-1	NA	<1%
Dichloroacetic Acid	79-43-6	NA	<1%
Monobromoacetic Acid	79-08-3	NA	<1%
Monochloroacetic Acid	79-11-8	NA	<1%
Trichloroacetic Acid	76-03-9	NA	<1%

* Components are calculated on a weight/weight basis.

Section III - Physical/Chemical Characteristics of Hazardous Ingredients

BOILING POINT: 131 F	SPECIFIC GRAVITY: 0.74 @ 20 C	
VAPOR PRESSURE: 7.8 PSI @ 100 F	SOLUBILITY IN WATER: 5% @ 68 F	APPEARANCE/ODOR: Sweet, ether-like odor

Section IV - Fire and Explosion Hazard Data

FLASH POINT (Method used): -14 F	AUTO IGNITION TEMPERATURE: 815 F	FLAMMABLE LIMITS	LEL 1.6%	UEL 8.4%
EXTINGUISHING MEDIA: Any extinguisher suitable for Class B fires, dry chemical, CO2, or water spray.				
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: NA				

Section V - Reactivity Data

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: Avoid high temperatures, open flames, sparks, welding, smoking, and ignition sources.
INCOMPATIBILITY (Materials to avoid): Keep away from strong oxidizers.			
HAZARDOUS DECOMPOSITION PRODUCTS:			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid:

Section VI - Health Hazard Data

ROUTES OF ENTRY	Inhalation? Yes	Skin? Yes	Ingestion? Yes
HEALTH HAZARDS (Acute and Chronic): This product has produced cancer, developmental and systemic toxicity in laboratory animals following prolonged exposure.			

SIGNS AND SYMPTOMS OF EXPOSURE: Dizziness, nausea, headache, intoxication, and affects respiratory system.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Chronic respiratory disease or pre-existing central nervous system disorders.
EMERGENCY AND FIRST AID PROCEDURES: Seek medical assistance for treatment, observation and support if necessary. EYE CONTACT: Flush with water, seek 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 and obtain medical assistance. INGESTION: Obtain medical assistance if swallowed. If conscious give large amounts of water and induce vomiting.

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Diluted standard can be absorbed with sand or other non-combustible absorbent material and placed into a container for later disposal. Sample solutions should be absorbed with charcoal or other organic absorbent and incinerated. Flush area with water.
WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state and local regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container tightly closed. Store in a cool, dry, well ventilated flammable liquid storage area. Isolate from incompatible materials.
OTHER PRECAUTIONS* Do not heat or evaporate analytical standards to dryness.

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): Respiratory protection required if airborne concentrations exceeds PEL (750 ppm). At concentrations up to 5000 ppm a chemical cartridge respirator with organic vapor cartridge is recommended. Above this level, a self-contained breathing apparatus is recommended. (20,000 is immediately dangerous to life or health).	
VENTILATION: Local exhaust	
PROTECTIVE GLOVES: Butyl, neoprene, latex, or rubber gloves.	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.