

M A T E R I A L   S A F E T Y   D A T A   S H E E T

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DATE PREPARED: 10/25/89

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MARTIN ENGINEERING CO.  
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SECTION I - PRODUCT IDENTIFICATION  
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FORMULA NUMBER: 905  
PRODUCT NUMBER: GMA58  
PRODUCT NAME : MURIATIC ACID 20  
PRODUCT CLASS : INORGANIC ACID

*201-796-7100*

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SECTION II - HAZARDOUS INGREDIENTS  
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INGREDIENT	CAS#	PERC WT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE @C
			TLV	PEL IMM	
1. HYDROCHLORIC ACID *	NONE	<100	NE	NE	128 20
* Above Ingredient Consists of:					
HYDROGEN CHLORIDE	7647-01-01	( 32)	5 ppm [CEILING]	5 ppm [CEILING]	>760 20

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SECTION III - PHYSICAL DATA  
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BOILING RANGE: 123 F                      VAPOR DENSITY: Heavier Than Air.  
EVAPORATION RATE: Slower Than Ether.    % VOLATILE: 100.0                      LBS/Gal : 9.660

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CLASS: OSHA-Not Applicable. FLASH POINT: None                      LEL: N/A  
DOT-Not Applicable.

EXTINGUISHING MEDIA: Not applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable.

SPECIAL FIREFIGHTING PROCEDURES: Self-contained respiratory protection should be provided for firefighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up.

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SECTION V - HEALTH HAZARD DATA  
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PRIMARY ROUTES OF ENTRY: Inhalation X    Ingestion X    Dermal X

EFFECTS OF OVEREXPOSURE - SHORT TERM EFFECTS:  
INHALATION - May cause irritation of respiratory tract and cough.

INGESTION - Poison. May be fatal if swallowed. May cause burns in mouth, pharynx and gastrointestinal tract.

SKIN CONTACT - Causes severe burns.

EYE CONTACT - Causes severe burns.

EFFECTS OF OVEREXPOSURE - LONG TERM EFFECTS:

None recognized.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE: None recognized.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION - If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

INGESTION - Do not induce vomiting. Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Call your poison control center, hospital emergency room or physician immediately.

SKIN CONTACT - Wash with soap and water.

EYE CONTACT - Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

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#### SECTION VI - REACTIVITY DATA

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STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce hydrogen chloride vapors.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents. Alkali. Alkali metal. Common metals. Cyanides.

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#### SECTION VII - SPILL AND LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Ventilate area. Flush large spills of material into suitable retaining area or containers with large quantities of water. Small spills can be absorbed by appropriate inert absorbent.

WASTE DISPOSAL: Dispose in accordance with applicable local, state and federal regulations.

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#### SECTION VIII - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: For OSHA controlled work place, use only with adequate ventilation under engineered air control systems designed to provide maximum appropriate TLV. For occasional use where engineered air control is not feasible, use NIOSH approved respirators. For occasional consumer use, use only with adequate ventilation.

VENTILATION: Adequate ventilation must be provided. See respiratory protection above.

PROTECTIVE GLOVES: Use impermeable gloves to prevent skin irritation.

EYE PROTECTION: Safety glasses, chemical goggles and/or face shields are recommended to safeguard against potential eye contact, irritation or injury.

OTHER PROTECTIVE EQUIPMENT: Varying application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc.

HYGIENIC PRACTICES: Before reuse, thoroughly clean any clothing or protective

equipment which has been contaminated by prior use.

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SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near flames or at elevated temperatures.

OTHER PRECAUTIONS: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to local regulations.

NOTE: THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATION OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES. ANY USE OF THIS DATA AND INFORMATION MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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SECTION IX - SPECIAL PRECAUTIONS

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OTHER PRECAUTIONS: Read carefully all conditions and di-  
rections before use. Since empty containers retain residues, do  
not reuse. Dispose of empty containers in accordance with  
regulations.

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