

Safety Data Sheet

performance through ch		al Register	/ Vol. 77, No. 58 / Monday, March Revision date: 11/08/2017	26, 2012 / Rules and Regulations Supersedes: 11/08/2017	Version: 1.2
		0,2010	100/2017		
SECTION 1: Identificati	on				
1.1. Identification Product form	: Mixt				
Product form Product name			A Standard, 1000 ppm (1mL =	(1ma Ma)	
Product code	: IMag : LC1		A Standard, 1000 ppin (Time -	Thy My)	
	and restrictions on use				
Use of the substance/mixture			and manufacturing use only.		
Recommended use		pratory che	• •		
Restrictions on use		-	lrug or household use		
1.3. Supplier			-		
LabChem Inc					
Jackson's Pointe Commerce P Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0 info@labchem.com - www.labc	647	ackson's F	Pointe Court		
1.4. Emergency telepho	ne number				
Emergency number	: CHE	MTREC:	1-800-424-9300 or 011-703-5	27-3887	
SECTION 2: Hazard(s)	identification				
2.1. Classification of the	e substance or mixture				
GHS-US classification					
Oxidizing liquids Category 3	H272	May ir	ntensify fire; oxidizer		
Corrosive to metals	H290	May b	e corrosive to metals		
Category 1 Skin corrosion/irritation Category 1B	H314	Cause	es severe skin burns and eye o	lamage	
	H318	Cause	es serious eye damage		
Full text of H statements : see	section 16				
2.2. GHS Label element	s, including precautiona	rv statem	ents		
GHS-US labeling	s, moluting precautiona	y statem			
Hazard pictograms (GHS-US)	· 〈	Ö			
Signal word (GHS-US)	: Dan	GHS03 der	GHS05		
Hazard statements (GHS-US)	: H27 H29	2 - May in 0 - May be	tensify fire; oxidizer e corrosive to metals s severe skin burns and eye d	amage	

Precautionary statements (GHS-US)

- H314 Causes severe skin burns and eye damage
- : P210 Keep away from heat, hot surfaces, open flames, sparks. No smoking P220 - Keep/Store away from clothing, combustible materials
 - P234 Keep only in original container
 - P260 Do not breathe mist
 - P264 Wash exposed skin thoroughly after handling
 - P280 Wear protective gloves, eye protection

 - P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated
- clothing. Rinse skin with water/shower
 - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 - P310 Immediately call a poison center or doctor/physician
 - P363 Wash contaminated clothing before reuse

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		P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2) to extinguish P390 - Absorb spillage to prevent material damage P405 - Store locked up P406 - Store in corrosive resistant container with a resistant inner liner P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing				
2.3.	Other hazards which do not result in	not result in classification				
Other classifi	nazards not contributing to the cation	: None under normal conditions.				
2.4.	Unknown acute toxicity (GHS US)					
Not ap	plicable					
SEC 3.1.	FION 3: Composition/Informatio	n on ingredients				
-	plicable					
3.2.	Mixtures					
3.2.	Mixtures					
Nam	e	Product identifier	%	GHS-US classification		
Water		(CAS-No.) 7732-18-5	96.49	Not classified		
Nitric	Acid, 70% w/w	(CAS-No.) 7697-37-2	2.46	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318		
Magn	esium Nitrate, Hexahydrate	(CAS-No.) 13446-18-9	1.05	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335		

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures) }	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.	
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.	
4.2. Most important symptoms and e	ffects (acute and delayed)	
Symptoms/effects	: Causes severe skin burns and eye damage.	
Symptoms/effects after inhalation	May cause respiratory irritation.	
Symptoms/effects after skin contact	Burns.	
Symptoms/effects after eye contact	Causes serious eye damage.	
Symptoms/effects after ingestion	: Burns. Nausea. Vomiting.	
4.3. Immediate medical attention and	special treatment, if necessary	

Obtain medical assistance.

SECTION 5: Fire-fighting mea	sures
5.1. Suitable (and unsuitable) ex	xtinguishing media
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising fro	m the chemical
Reactivity	: Thermal decomposition generates : Corrosive vapors.
5.3. Special protective equipme	nt and precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
Protective equipment	: Safety glasses. Gloves.			
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection.			
Emergency procedures	: Ventilate area.			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.			
6.3. Methods and material for containment	nt and cleaning up			
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.			
6.4. Reference to other sections				
See Heading 8. Exposure controls and personal p	protection.			
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist.			
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.			
7.2. Conditions for safe storage, including any incompatibilities				
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use.			
Incompatible products	: Strong bases.			
Incompatible materials	: Sources of ignition. Direct sunlight.			

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nitric Acid, 70% w/w (7697-37-2)				
ACGIH	ACGIH TWA (ppm)	2 ppm (Nitric acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)		
ACGIH	ACGIH STEL (ppm)	4 ppm (Nitric acid; USA; Short time value; TLV - Adopted Value)		
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	2 ppm		
IDLH	US IDLH (ppm)	25 ppm		
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³		
NIOSH	NIOSH REL (TWA) (ppm)	2 ppm		
NIOSH	NIOSH REL (STEL) (mg/m ³)	10 mg/m ³		
NIOSH	NIOSH REL (STEL) (ppm)	4 ppm		
Magnesium Nitrate, Hexahydrate (13446-18-9)				
Not applicable				
Water (7732-18-5)				
Not applicable				

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Chemical resistant apron. Face shield. Gloves. Protective clothing. Safety glasses.



Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

Do not eat, drink of smoke during use.	
SECTION 9: Physical and chemical	I properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: None.
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 ℃	: No data available
Relative density	: No data available
Specific gravity / density	: 1 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
0.0 Other information	

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
Thermal decomposition generates : Corrosive va	JOI S.		
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperature	es.		
10.5. Incompatible materials			
Strong bases.			
10.6. Hazardous decomposition products			
Nitrogen oxides.			
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Likely routes of exposure	: Skin and eye contact		
Acute toxicity	: Not classified		
Magnesium Nitrate, Hexahydrate (13446-18-9			
LD50 oral rat	5440 mg/kg		
ATE US (oral)	5440 mg/kg body weight		
Water (7732-18-5)			
LD50 oral rat	≥ 90000 mg/kg		
ATE US (oral)	90000 mg/kg body weight		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	: Causes serious eye damage.		
Respiratory or skin sensitization	: Not classified		
erm cell mutagenicity : Not classified arcinogenicity : Not classified			
Carcinogenicity			
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure	: Not classified		
Specific target organ toxicity – repeated	: Not classified		
exposure			
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		
Symptoms/effects after inhalation	: May cause respiratory irritation.		
Symptoms/effects after skin contact	: Burns.		
Symptoms/effects after eye contact	: Causes serious eye damage.		
Symptoms/effects after ingestion	: Burns. Nausea. Vomiting.		
	~ 		
SECTION 12: Ecological information			

12.1. Toxicity

Nitric Acid, 70% w/w (7697-37-2)		
EC50 Daphnia 1	180 mg/l (EC50; 48 h)	
LC50 fish 2	72 ppm (LC50; 96 h)	
Threshold limit algae 1	> 19 mg/l (EC0)	

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Magnesium AA Standard, 1000 ppm (1mL =	= 1mg Mg)
Persistence and degradability	Not established.
Nitric Acid, 70% w/w (7697-37-2)	
Persistence and degradability	Biodegradability: not applicable. No test data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Magnesium AA Standard, 1000 ppm (1mL :	= 1mg Mg)
Bioaccumulative potential	Not established.
Nitric Acid, 70% w/w (7697-37-2)	
BCF fish 1	<= 1 (BCF)
Log Pow	-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
2.5. Other adverse effects	
Effect on the global warming	: No known effects from this product. : No known effects from this product.
12.5. Other adverse effects Effect on the global warming GWPmix comment Dther information	 No known effects from this product. No known effects from this product. Avoid release to the environment.
Effect on the global warming GWPmix comment Dther information	No known effects from this product.Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideratio	No known effects from this product.Avoid release to the environment.
Effect on the global warming GWPmix comment	 No known effects from this product. Avoid release to the environment. Ons : Dispose in a safe manner in accordance with local/national regulations. Dispose of
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations	 No known effects from this product. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT)	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment.
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. N UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT)	 No known effects from this product. Avoid release to the environment. Ins Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. Instant UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II UN3264
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description UN-No.(DOT) Proper Shipping Name (DOT)	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. Instant Control (Control (Control (Content)) (Content) (Conte
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT)	 No known effects from this product. Avoid release to the environment. Ons Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. I UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II UN3264 Corrosive liquid, acidic, inorganic, n.o.s. 8 - Class 8 - Corrosive material 49 CFR 173.136
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Packing group (DOT)	 No known effects from this product. Avoid release to the environment. Ins Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. Inscience of the environment. UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II UN3264 Corrosive liquid, acidic, inorganic, n.o.s. 8 - Class 8 - Corrosive material 49 CFR 173.136 II - Medium Danger 8 - Corrosive
Effect on the global warming GWPmix comment Other information SECTION 13: Disposal consideration 13.1. Disposal methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No. (DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Packing group (DOT) Hazard labels (DOT)	 No known effects from this product. Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II UN3264 Corrosive liquid, acidic, inorganic, n.o.s. Corrosive liquid, acidic, inorganic, n.o.s. Class 8 - Corrosive material 49 CFR 173.136 II - Medium Danger 8 - Corrosive

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DOT Special Provisions (49 CFR 172.102)	:	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Other information	:	No supplementary information available.

SECTION 15: Regulatory information			
5.1. US Federal regulations			
Magnesium AA Standard, 1000 ppm (1mL = 1	mg Mg)		
SARA Section 311/312 Hazard Classes		Immediate (acute) health hazard	
All components of this product are listed, or exclusion Substances Control Act (TSCA) inventory except		on the United States Environm	ental Protection Agency Toxic
Magnesium Nitrate, Hexahydrate		CAS-No. 13446-18-9	1.05%
Chemical(s) subject to the reporting requirement 1986 and 40 CFR Part 372. Nitric Acid, 70% w/w	s of Section 313 o	r Title III of the Superfund Am	endments and Reauthorization Act (SARA) of
			2.1070
Nitric Acid, 70% w/w (7697-37-2)			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb		
SARA Section 302 Threshold Planning 1000 lb			

15.2. International regulations
CANADA No additional information available
Magnesium Nitrate, Hexahydrate (13446-18-9)

Immediate (acute) health hazard

Not listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Quantity (TPQ)

No additional information available

SARA Section 311/312 Hazard Classes

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National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Revision date	: 11/08/2017
Other information	: None.
Full text of H-phrases: see sect	ion 16:
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	•
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B

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