MATERIAL SAFETY DATA SHEET

Issuing Date 9/3/2013 **Revision Number** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **LEAD IN AIR ABSORBING SOLUTION**

Product Code(s) 7668

Recommended Use Test kit reagent. Laboratory chemicals. Industrial (not for food or food contact use).

Company

LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency telephone number 24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

WARNING

EMERGENCY OVERVIEW

Causes skin and eye irritation
May be harmful if swallowed

Appearance Clear, colorless **Physical state** liquid **Odor** Slight

OSHA Regulatory Status Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.

Potential health effects

Principle Routes of Exposure Eye Contact, Skin Contact, Ingestion, Inhalation.

Acute toxicity

Eyes Contact with eyes may cause severe irritation. Causes irritation, redness, and pain.

Skin Irritating to skin. Symptoms can include redness, itching, and pain. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation Depending on exposure, the effects from inhalation of corrosive mists can vary from mild irritation to serious damage to respiratory tract. Effects are expected to be less severe than for exposure to higher concentrations which symptoms can include coughing, nausea, vomiting.

Ingestion Harmful if swallowed. Causes irritation or burns to the digestive and respiratory tract. Can cause immediate pain and burning in the mouth, throat, esphogus and GI tract. May cause nausea, vomiting, and diarrhea, and in severe cases death.

Chronic effects

Aggravated Medical Conditions Hypersensitivity may occur in those with preexisting skin disorders. Respiratory disorders. Preexisting eye disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula HNO_3 in H_2O

Chemical name	CAS-No	Weight %
Nitric acid	7697-37-2	<1

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation Move victim to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water. Drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

Protection of First-aiders Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable.

Flash point Not Applicable

Suitable extinguishing media Dry chemical, CO_2, alcohol-resistant foam or water spray.

NFPA	**Health hazard** 1	**flammability** 0	**Stability** 0	**Physical and Chemical Hazards** -
HMIS	**Health hazard** 1	**flammability** 0	**Stability** 0	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes, and inhalation of vapors. Use personal protective equipment. Refer to Section 8.

Methods for cleaning up Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from direct sunlight. Store away from strong bases or metals. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitric acid 7697-37-2	4 ppm STEL TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face Protection Safety glasses with side-shields.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	**Odor**	Slight
Physical state	liquid	**pH**	~ 1
Flash point	Not Applicable	**Autoignition temperature**	Not Applicable
Boiling Point/Range	ca. 100°C/212°F		
Vapor pressure	No information available	**Vapor density**	No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong bases. Metals. Cyanides. Sulfides. Combustible materials.

Conditions to avoid Excessive heat. Direct sunlight. Incompatible products.

Hazardous decomposition products Nitrogen oxides (NOx).

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid	None known	None known	67 ppm (Rat) 4 h 130 mg/m³ (Rat) 4 h

Chronic toxicity

Chemical name	ACGIH	IARC	NTP	OSHA
Nitric acid	None known	Group 2A	None known	X

Endocrine Disruptor Information .

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine disrupting potential
Nitric acid	None known	None known	None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Nitric acid	None known	None known	None known	None known

Persistence and degradability No information available.

Bioaccumulation/Accumulation No information available.

Chemical name	Log Pow
Nitric acid	= -2.3 25 °C

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Nitric acid - 7697-37-2	None known	None known	None known	None known

14. TRANSPORT INFORMATION

DOT

Proper shipping name CORROSIVE LIQUID, ACIDIC, N.O.S. (<1% Nitric acid solution)
Hazard Class 8
UN-No 3264
Packing group III
Reportable Quantity (RQ) 1000

IATA

UN-No 3264
Proper shipping name CORROSIVE LIQUID, ACIDIC, N.O.S. (<1% Nitric acid solution)
Hazard Class 8
Packing group III

IMDG/IMO

Proper shipping name CORROSIVE LIQUID, ACIDIC, N.O.S. (<1% Nitric acid solution)
Hazard Class 8
UN-No 3264
Packing group III

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Nitric acid 7697-37-2 (<1)	Present	X	X	Present	X	KE-25911	X	X

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Nitric acid	7697-37-2	<1	1.0

SARA 311/312 Hazard Categories

Acute health hazard	yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	yes

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nitric acid 7697-37-2 (<1)	1000 lb	None known	None known	X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any HAPs.

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nitric acid	7697-37-2	<1	None known	None known	None known	None known

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ
Nitric acid	1000 lb	1000 lb

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

Chemical name	CAS-No	California Prop. 65
Nitric acid	7697-37-2	None known

U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nitric acid	X	X	X	X	X

International Regulations

Mexico - Grade

Chemical name	Carcinogen Status	Exposure Limits

Nitric acid	None known	Mexico: TWA 2 ppm Mexico: TWA 5 mg/m^3 Mexico: STEL 4 ppm Mexico: STEL 10 mg/m^3

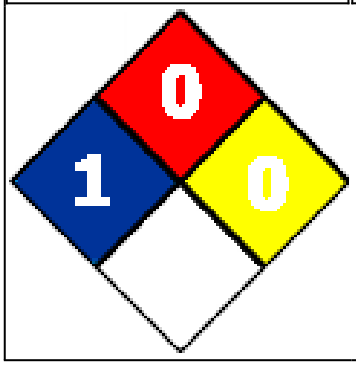
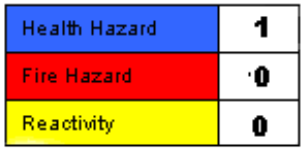
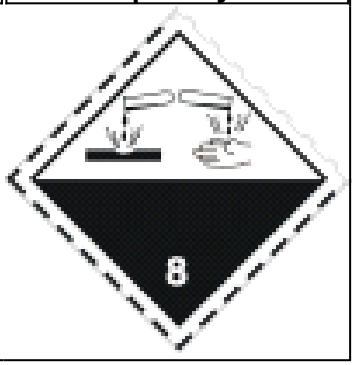
CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR NOT WHMIS CONTROLLED

Component	WHMIS Hazard Class
Nitric acid 7697-37-2 (<1)	1 % C,E E C,D1B,E

Chemical name	NPRI
Nitric acid	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol
			

Prepared by Regulatory Affairs Department
Issuing Date 9/3/2013
Revision date -
Revision note Update to Format.
Disclaimer

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End of MSDS