

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name NITRITE-NITROGEN TEST REAGENT 1
Product Code(s) 5151
Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.
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

May be harmful if swallowed
 May be harmful if absorbed through the skin
 Irritating to eyes, respiratory system, and skin

Appearance Clear, colorless

Physical State Liquid

Odor Mild, Ammoniacal, (glue)

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, and, Ingestion.

Acute Toxicity

Eyes Irritating to eyes. May cause redness, itching, and pain.
Skin May cause irritation. May be harmful in contact with skin.
Inhalation Not an expected route of exposure. May cause irritation of respiratory tract.
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation.

Chronic Effects
3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	<0.9
Phenol	108-95-2	1.4
Ammonium chloride	12125-02-9	28
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice Do not get in eyes, on skin, or on clothing.

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult 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. Wash skin with soap and water. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.
Ingestion	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water. Consult a physician.
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 a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors.
Methods for Containment	Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal. Dispose according to federal, state, and local regulations.
Methods for Cleaning Up	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. Store away from strong bases or metals. Keep away from oxidizing agents. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m ³)	IDLH: 50 ppm Ceiling: 7 mg/m ³ Ceiling: 5 ppm

Phenol 108-95-2	TWA: 5 ppm	TWA: 19 mg/m ³ TWA: 5 ppm	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m ³ TWA: 19 mg/m ³ TWA: 5 ppm
Ammonium chloride 12125-02-9	= 20 mg/m ³ STEL TWA: 10 mg/m ³	None Known	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Water 7732-18-5	None Known	None Known	None Known

Engineering Measures

Showers
Eyewash stations
Ventilation systems. Use only under a chemical fume hood.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields. If splashes are likely to occur, wear: Face-shield.

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	Mild, Ammoniacal, (glue)
Physical State	Liquid	pH	<1
Flash Point	Not applicable	Boiling Point/Range	No data available

Vapor Pressure	No data available	Vapor Density	No data available
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10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Incompatible Products	Strong bases. Metals. Strong oxidizing agents.
Conditions to Avoid	Excessive heat. Incompatible products.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions - . Hydrogen chloride gas. Ammonia.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	700 mg/kg (Rat)	5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
Phenol	317 mg/kg (Rat)	525 mg/kg (Rat) 630 mg/kg (Rabbit)	None Known
Ammonium chloride	1410 mg/kg (Rat)	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	None Known	None Known	None Known	None Known
Phenol	None Known	None Known	None Known	None Known
Ammonium chloride	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Hydrochloric acid	None Known	None Known	None Known
Phenol	None Known	None Known	None Known
Ammonium chloride	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrochloric acid	None Known	LC50= 282 mg/L <i>Gambusia affinis</i> 96 h	None Known	None Known
Phenol	EC50 = 150 mg/L 96 h	LC50 5 - 12 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50= 23.88 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 24 mg/L <i>Pimephales promelas</i> 96 h LC50= 27.8 mg/L <i>Brachydanio rerio</i> 96 h LC50= 40 mg/L <i>Poecilia reticulata</i> 96 h LC50= 8.9 mg/L <i>Oncorhynchus mykiss</i> 96 h	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	LC50 = 13 mg/L 48 h EC50 = 23.0 mg/L 48 h
Ammonium chloride	None Known	LC50= 209 mg/L <i>Cyprinus carpio</i> 96 h	None Known	EC50 = 202 mg/L 24 h
Water	None Known	None Known	None Known	None Known

Persistence and Degradability Based on components, product is expected to be readily biodegradable.

Chemical Name	Log Pow
Hydrochloric acid	None Known
Phenol	= 1.47
Ammonium chloride	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hydrochloric acid - 7647-01-0	None Known	None Known	None Known	None Known
Phenol - 108-95-2	None Known	None Known	None Known	None Known
Ammonium chloride - 12125-02-9	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid/Phenol solution)
Hazard Class 8
UN-No 2922
Packing Group III
Reportable Quantity (RQ) 5000

IATA

UN-No 2922
Proper Shipping Name CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid/Phenol solution)
Hazard Class 8
Packing Group III

IMDG/IMO

Proper Shipping Name CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid/Phenol solution)
Hazard Class 8
UN-No 2922
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hydrochloric acid 7647-01-0 (<0.9)	T	X	X	X	X	KE-20189 X	X	X
Phenol 108-95-2 (1.4)	Present	X	X	3-481	X	KE-28209	X	X
Ammonium chloride 12125-02-9 (28)	Present	X	X	1-218	X	KE-01645	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	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 %
Hydrochloric acid	7647-01-0	<0.9	1.0
Phenol	108-95-2	1.4	1.0
Ammonium chloride	12125-02-9	28	1.0
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

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

Hydrochloric acid 7647-01-0 (<0.9)	5000 lb	None Known	None Known	X
Phenol 108-95-2 (1.4)	1000 lb	X	X	X
Ammonium chloride 12125-02-9 (28)	5000 lb	None Known	None Known	X
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid	7647-01-0	<0.9	Present	None Known	None Known	None Known
Phenol	108-95-2	1.4	Present	Group III	None Known	None Known
Ammonium chloride	12125-02-9	28	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrochloric acid	5000 lb	5000 lb
Phenol	1000 lb	1000 lb
Ammonium chloride	5000 lb	None Known
Water	None Known	None Known

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Hydrochloric acid	7647-01-0	None Known
Phenol	108-95-2	None Known
Ammonium chloride	12125-02-9	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	X	X	X	X	X
Phenol	X	X	X	X	X
Ammonium chloride	X	X	X	None Known	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Hydrochloric acid	None Known	None Known
Phenol	None Known	Mexico: TWA= 19 mg/m ³ Mexico: TWA= 5 ppm
Ammonium chloride	None Known	Mexico: TWA= 10 mg/m ³
Water	None Known	None Known

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

Component	WHMIS Hazard Class

Hydrochloric acid 7647-01-0 (<0.9)	1 % A D1A E D1B E D1A E
Phenol 108-95-2 (1.4)	1 % D1A E
Ammonium chloride 12125-02-9 (28)	1 % D2B
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria



Chemical Name	NPRI
Phenol	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	0	Reactivity	0		
Health Hazard	2								
Fire Hazard	0								
Reactivity	0								

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 Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS