SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance  
Substance name : Nitric acid, 70% w/w
CAS No : 7697-37-2
Product code : LC17700
Formula : HNO3
BIG no : 08999

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical raw material  
Metal surface treatment
Printing industry: etch solution
Laboratory chemical

1.3. Details of the supplier of the safety data sheet

LabChem Inc  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
16063 Zelienople, PA - USA  
T 412-826-5230 - F 724-473-0647  
info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Ox. Liq. 3 H272  
Met. Corr. 1 H290  
Skin Corr. 1A H314  
Eye Dam. 1 H318

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) : 

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H272 - May intensify fire; oxidiser  
H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P220 - Keep/Store away from clothing, combustible materials  
P221 - Take any precaution to avoid mixing with combustibles  
P234 - Keep only in original container  
P260 - Do not breathe mist, spray, vapours  
P264 - Wash exposed skin thoroughly after handling  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
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  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
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/doctor/…  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction  
P390 - Absorb spillage to prevent material damage  
P405 - Store locked up  
P406 - Store in corrosive resistant container with a resistant inner liner
Nitric acid, 70% w/w
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards
Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/information on ingredients
3.1. Substances
Substance type : Multi-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid, 70% w/w (Main constituent)</td>
<td>(CAS No) 7697-37-2</td>
<td>100</td>
<td>Ox. Liq. 3, H272, Met. Corr. 1, H290, Skin Corr. 1A, H314, Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

3.2. Mixture
Not applicable

SECTION 4: First aid measures
4.1. Description of first aid measures

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Cover eyes aseptically. Take victim to an ophthalmologist.


4.2. Most important symptoms and effects, both acute and delayed


Symptoms/injuries after eye contact : Corrosion of the eye tissue. Permanent eye damage.


4.3. Indication of any immediate medical attention and special treatment needed
Obtain medical assistance.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture
Fire hazard : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".
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Reactivity: Concentrated solution reacts exothermically with water (moisture). Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with many compounds e.g.: with (strong) reducers, with (some) bases, with organic material and with combustible materials with risk of spontaneous ignition. Reacts violently with (some) metals. Decomposes slowly on exposure to light: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with (some) metal powders: release of highly flammable gases/vapours (hydrogen).

5.3. Advice for firefighters
Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray.
Emergency procedures: Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions
Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up
For containment: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Dilute toxic gases/vapours with water spray. Take account of toxic/corrosive precipitation water. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain.
Methods for cleaning up: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Do not take up in combustible material such as: saw dust. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/effluvers. Spill must not return in its original container. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosion-proof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Never dilute by pouring water to the acid. Always add the acid to the water. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources.
Special rules on packaging: SPECIAL REQUIREMENTS: hermetrical. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials: SUITABLE MATERIAL: stainless steel. aluminium. iron. glass. MATERIAL TO AVOID: synthetic material.
Nitric acid, 70% w/w
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7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Nitric acid, 70% w/w (7697-37-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>2 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.


Hand protection : Gloves.

Eye protection : Protective goggles.

Skin and body protection : Head/neck protection. Corrosion-proof clothing.

Respiratory protection : Gas mask with filter type B. Gas mask with filter type E. Gas mask with filter type NO. High vapour/gas concentration: self-contained respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>63.01 g/mol</td>
</tr>
<tr>
<td>Odour</td>
<td>Irritating/pungent odour. Asphyxiating odour.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>0.29 - 0.98 ppm</td>
</tr>
<tr>
<td></td>
<td>0.75 - 2.5 mg/m³</td>
</tr>
<tr>
<td>pH</td>
<td>1 (6 %)</td>
</tr>
<tr>
<td>pH solution</td>
<td>6 %</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>-42 - -38 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>83 - 122 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>7.3 - 58.5 hPa</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>2.2</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.4 - 1.5</td>
</tr>
<tr>
<td>Relative density of saturated gas/air mixture</td>
<td>1.01</td>
</tr>
<tr>
<td>Density</td>
<td>1413 - 1513 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Exothermically soluble in water. Soluble in ether. Water: Complete</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>0.0009 - 0.002 Pa.s (20 °C)</td>
</tr>
</tbody>
</table>
Nitric acid, 70% w/w
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Explosive properties: No data available
Oxidising properties: May intensify fire; oxidiser.
Explosive limits: No data available

9.2. Other information
Saturation concentration: 10 g/m³
VOC content: Not applicable
Other properties: Gas/vapour heavier than air at 20°C. Hygroscopic. Producing fumes/mist. Physical properties depending on the concentration. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity
Concentrated solution reacts exothermically with water (moisture). Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with many compounds e.g.: with (strong) reducers, with (some) bases, with organic material and with combustible materials with risk of spontaneous ignition. Reacts violently with (some) metals. Decomposes slowly on exposure to light: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with (some) metal powders: release of highly flammable gases/vapours (hydrogen).

10.2. Chemical stability
Unstable on exposure to light. Hygroscopic.

10.3. Possibility of hazardous reactions
May react violently with reducing agents.

10.4. Conditions to avoid
Direct sunlight. Incompatible materials.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Nitrogen oxides. oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified
Skin corrosion/irritation: Causes severe skin burns and eye damage.
  pH: 1 (6 %)
Serious eye damage/irritation: Causes serious eye damage.
  pH: 1 (6 %)
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Symptoms/injuries after eye contact: Corrosion of the eye tissue. Permanent eye damage.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Classification concerning the environment: not applicable.
Nitric acid, 70% w/w (7697-37-2)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>25 - 36 mg/l (96 h: Lepomis macrochirus; PURE SUBSTANCE)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>180 mg/l (48 h: Daphnia magna; PURE SUBSTANCE)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>72 ppm (Gambusia affinis; PURE SUBSTANCE)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 19 mg/l (Algae; PURE SUBSTANCE)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable. No (test)data on mobility of the components of the mixture available.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>&lt;= 1 (Pisces)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation: not applicable.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Remove waste in accordance with local and/or national regulations. Recycle/reuse. Remove for physico-chemical/biological treatment. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment.</td>
</tr>
<tr>
<td>Additional information</td>
<td>LWCA (the Netherlands): KGA category 01. Hazardous waste according to Directive 2008/98/EC.</td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No.(DOT)</td>
<td>2031</td>
</tr>
<tr>
<td>DOT NA no.</td>
<td>UN2031</td>
</tr>
</tbody>
</table>

14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Proper Shipping Name</td>
<td>Nitric acid other than red fuming, with at least 65 percent, but not more than 70 percent nitric acid</td>
</tr>
<tr>
<td>Department of Transportation (DOT) Hazard Classes</td>
<td>8 - Class 8 - Corrosive material 49 CFR 173.136</td>
</tr>
<tr>
<td>Hazard labels (DOT)</td>
<td>8 - Corrosive substances 5.1 - Oxidizing substances</td>
</tr>
<tr>
<td>Packing group (DOT)</td>
<td>II - Medium Danger</td>
</tr>
</tbody>
</table>
Nitric acid, 70% w/w  
Safety Data Sheet  
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**DOT Special Provisions (49 CFR 172.102):**
- A6 - For combination packagings, if plastic inner packagings are used, they must be packed in tightly closed metal receptacles before packing in outer packagings.
- B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.
- B47 - Each tank may have a reclosing pressure relief device having a start-to-discharge pressure setting of 310 kPa (45 psig).
- IP15 - For UN2031 with more than 55% nitric acid, rigid plastic IBCs and composite IBCs with a rigid plastic inner receptacle are authorized for two years from the date of IBC manufacture.
- T8 - 4 178.274(d)(2) Normal............. Prohibited
- TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: $t_r$ is the maximum mean bulk temperature during transport, $t_f$ is the temperature in degrees celsius of the liquid during filling, and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling ($t_f$) and the maximum mean bulk temperature during transportation ($t_r$) both in degrees celsius.  b. For liquids transported under ambient conditions may be calculated using the formula: (image)

Where: $d_{15}$ and $d_{50}$ are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

**DOT Packaging Exceptions (49 CFR 173.xxx):** None

**DOT Packaging Non Bulk (49 CFR 173.xxx):** 158

**DOT Packaging Bulk (49 CFR 173.xxx):** 242

**14.3. Additional information**

Other information: No supplementary information available.

State during transport (ADR-RID): as liquid.

**Overland transport**

Packing group (ADR): II

Class (ADR): 8 - Corrosive substances

Hazard identification number (Kemler No.): 85

Classification code (ADR): CO1

Danger labels (ADR): 8 - Corrosive substances 5.1 - Oxidizing substances

Orange plates: 85 2031

Tunnel restriction code: E

**Transport by sea**

DOT Vessel Stowage Location: D - The material must be stowed “on deck only” 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, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.

DOT Vessel Stowage Other: 66 - Stow “separated from” flammable solids, 74 - Stow “separated from” oxidizers, 89 - Segregation same as for oxidizers, 90 - Stow “separated from” radioactive materials

EmS-No. (1): F-A

EmS-No. (2): S-B

**Air transport**

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): Forbidden

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L

Subsidiary risks (IATA): 5.1

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

Nitric acid, 70% w/w (7697-37-2)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on SARA Section 313 (Specific toxic chemical listings)

07/03/2013 EN (English)
Nitric acid, 70% w/w
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Nitric acid, 70% w/w (7697-37-2)
RQ (Reportable quantity, section 304 of EPA's List of Lists) : 1000 lb
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

15.2. International regulations

CANADA

Nitric acid, 70% w/w (7697-37-2)
Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification
Class E - Corrosive Material
Class C - Oxidizing Material

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ox. Liq. 3  H272
Skin Corr. 1A H314

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
O; R8
C; R35

Full text of R-phrases: see section 16

15.2.2. National regulations

Nitric acid, 70% w/w (7697-37-2)
Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

Nitric acid, 70% w/w(7697-37-2)
State or local regulations    U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Full text of H-phrases: see section 16:

- Eye Dam. 1 Serious eye damage/eye irritation, Category 1
- Met. Corr. 1 Corrosive to metals, Category 1
- Ox. Liq. 3 Oxidising Liquids, Category 3
- Skin Corr. 1A Skin corrosion/irritation, Category 1A
- H272 May intensify fire; oxidiser
- H290 May be corrosive to metals
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

- NFPA health hazard : 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.
- NFPA fire hazard : 0 - Materials that will not burn.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
- NFPA specific hazard : OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.
Nitric acid, 70% w/w
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HMIS III Rating

Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.