

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Arsenic AA Standard, 1000ppm (1mL = 1mg As)  
Product code : LC11500

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

Use of the substance/mixture : For laboratory and manufacturing use only.  
Restrictions on use : Not for food, drug or household use

#### 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  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Oxidizing liquids Category 3 H272  
Corrosive to metals Category 1 H290  
Skin corrosion/irritation Category 1B H314  
Serious eye damage/eye irritation Category 1 H318  
Carcinogenicity Category 1A H350

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS03

GHS05

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H272 - May intensify fire; oxidizer  
H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H350 - May cause cancer

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from sparks, open flames, hot surfaces, heat. - No smoking  
P220 - Keep/Store away from combustible materials  
P234 - Keep only in original container  
P260 - Do not breathe dust, mist  
P264 - Wash exposed skin thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection, face 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  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P310 - Immediately call a poison center or doctor/physician  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2) to extinguish  
P390 - Absorb spillage to prevent material damage

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P405 - Store locked up  
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

Other hazards not contributing to the classification : None under normal conditions.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                 | Product identifier | %     | GHS-US classification                                                                                                              |
|----------------------|--------------------|-------|------------------------------------------------------------------------------------------------------------------------------------|
| Water                | (CAS No) 7732-18-5 | 95.83 | Not classified                                                                                                                     |
| Nitric Acid, 70% w/w | (CAS No) 7697-37-2 | 4     | Ox. Liq. 3, H272<br>Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318                                                  |
| Arsenic (V) Oxide    | (CAS No) 1303-28-2 | 0.17  | Acute Tox. 2 (Oral), H300<br>Acute Tox. 3 (Inhalation), H331<br>Carc. 1A, H350<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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 effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause cancer by inhalation.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Burns.

Chronic symptoms : Skin rash/inflammation. Impairment of the nervous system.

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

Hospitalize at once.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapors.

### 5.3. Advice for firefighters

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 : Protective goggles. Protective clothing. Gloves. Face-shield.  
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 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 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 dust, mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
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 only in the original container in a cool, well ventilated place away from : Direct sunlight, incompatible materials. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong reducing agents.  
Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Arsenic (V) Oxide (1303-28-2)    |                             |                                                                                         |
|----------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|
| ACGIH                            | ACGIH TWA (mg/m³)           | 0.01 mg/m³ as As                                                                        |
| OSHA                             | OSHA PEL (TWA) (mg/m³)      | 0.01 mg/m³                                                                              |
| NIOSH                            | NIOSH REL (ceiling) (mg/m³) | 0.002 mg/m³                                                                             |
| 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/m³)      | 5 mg/m³                                                                                 |
| OSHA                             | OSHA PEL (TWA) (ppm)        | 2 ppm                                                                                   |
| IDLH                             | US IDLH (ppm)               | 25 ppm                                                                                  |
| NIOSH                            | NIOSH REL (TWA) (mg/m³)     | 5 mg/m³                                                                                 |
| NIOSH                            | NIOSH REL (TWA) (ppm)       | 2 ppm                                                                                   |
| NIOSH                            | NIOSH REL (STEL) (mg/m³)    | 10 mg/m³                                                                                |
| NIOSH                            | NIOSH REL (STEL) (ppm)      | 4 ppm                                                                                   |
| Water (7732-18-5)                |                             |                                                                                         |
| Not applicable                   |                             |                                                                                         |

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### 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. Material should be handled in a laboratory hood whenever possible.

Personal protective equipment : Avoid all unnecessary exposure. Face shield. Gloves. Safety glasses. Protective clothing.



Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or face shield.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Wear appropriate mask.  
Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Color : Colorless  
Odor : None.  
Odor threshold : No data available  
pH : < 1  
Melting point : -7 °C  
Freezing point : No data available  
Boiling point : 102 °C  
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 °C : No data available  
Relative density : No data available  
Specific gravity / density : 1.02 g/ml  
Solubility : Soluble in water.  
Log Pow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, kinematic : 1.04 mPa.s  
Viscosity, dynamic : No data available  
Explosion limits : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

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### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong reducing agents. Strong bases.

### 10.6. Hazardous decomposition products

Nitrogen oxides. Arsenic and its oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

| Arsenic (V) Oxide (1303-28-2) |                         |
|-------------------------------|-------------------------|
| LD50 oral rat                 | 8 mg/kg                 |
| ATE US (oral)                 | 8.000 mg/kg body weight |
| ATE US (gases)                | 700.000 ppmV/4h         |
| ATE US (vapors)               | 3.000 mg/l/4h           |
| ATE US (dust, mist)           | 0.500 mg/l/4h           |

| Water (7732-18-5) |                             |
|-------------------|-----------------------------|
| LD50 oral rat     | ≥ 90000 mg/kg               |
| ATE US (oral)     | 90000.000 mg/kg body weight |

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: < 1

Serious eye damage/irritation : Causes serious eye damage.  
pH: < 1

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause cancer by inhalation.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Burns.

Chronic symptoms : Skin rash/inflammation. Impairment of the nervous system.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Arsenic (V) Oxide (1303-28-2)    |                       |
|----------------------------------|-----------------------|
| LC50 fish 1                      | 28 mg/l 96 h          |
| 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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### 12.2. Persistence and degradability

| Arsenic AA Standard, 1000ppm (1mL = 1mg As) |                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------|
| 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

| Arsenic AA Standard, 1000ppm (1mL = 1mg As) |                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------|
| Bioaccumulative potential                   | Not established.                                                             |
| Arsenic (V) Oxide (1303-28-2)               |                                                                              |
| BCF fish 1                                  | 0.53 mg/l 30 d                                                               |
| Bioconcentration factor (BCF REACH)         | 3.1                                                                          |
| 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

No additional information available

### 12.5. Other adverse effects

|                              |                                       |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment               | : No known effects from this product. |
| Other information            | : Avoid release to the environment.   |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. |
| Ecology - waste materials      | : Avoid release to the environment.                                                                                                                          |

## SECTION 14: Transport information

### Department of Transportation (DOT)

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| In accordance with DOT           |                                                                                                |
| Transport document description   | : UN2031 Nitric acid other than (red fuming, with not more than 20 percent nitric acid), 8, II |
| UN-No.(DOT)                      | : UN2031                                                                                       |
| Proper Shipping Name (DOT)       | : Nitric acid other than<br>red fuming, with not more than 20 percent nitric acid              |
| Transport hazard class(es) (DOT) | : 8 - Class 8 - Corrosive material 49 CFR 173.136                                              |
| Packing group (DOT)              | : II - Medium Danger                                                                           |

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Hazard labels (DOT)

: 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)

: 158

DOT Packaging Bulk (49 CFR 173.xxx)

: 242

DOT Special Provisions (49 CFR 172.102)

: A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging.  
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).  
B53 - Packaging must be made of either aluminum or steel.  
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.  
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: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.  
TP12 - This material is considered highly corrosive to steel.

DOT Packaging Exceptions (49 CFR 173.xxx)

: None

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

: 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.

Other information

: No supplementary information available.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Arsenic AA Standard, 1000ppm (1mL = 1mg As)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard  
Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                      |                  |       |
|----------------------|------------------|-------|
| Arsenic (V) Oxide    | CAS No 1303-28-2 | 0.17% |
| Nitric Acid, 70% w/w | CAS No 7697-37-2 | 4%    |

#### Arsenic (V) Oxide (1303-28-2)

|                                                              |                                                                                                                                    |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1 lb                                                                                                                               |
| SARA Section 302 Threshold Planning Quantity (TPQ)           | 10000 lb 100lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form |
| SARA Section 311/312 Hazard Classes                          | Immediate (acute) health hazard<br>Delayed (chronic) health hazard                                                                 |

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### 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 Quantity (TPQ)           | 1000 lb                         |
| SARA Section 311/312 Hazard Classes                          | Immediate (acute) health hazard |

## 15.2. International regulations

### CANADA

#### Arsenic AA Standard, 1000ppm (1mL = 1mg As)

|                      |                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class E - Corrosive Material<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Arsenic (V) Oxide (1303-28-2)

Listed on the Canadian DSL (Domestic Substances List)

|                      |                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| WHMIS Classification | Class E - Corrosive Material<br>Class C - Oxidizing Material |
|----------------------|--------------------------------------------------------------|

#### Water (7732-18-5)

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|-----------------------------------------------------------------|

### EU-Regulations

No additional information available

### National regulations

#### Arsenic (V) Oxide (1303-28-2)

Listed on the Canadian IDL (Ingredient Disclosure List)

## 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

#### Arsenic (V) Oxide (1303-28-2)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| Yes                                                   | Yes                                                         | No                                                                  | No                                                                |                                   |

## SECTION 16: Other information

Revision date : 12/06/2016

Other information : None.

Full text of H-phrases: see section 16:

|      |                                                      |
|------|------------------------------------------------------|
| H272 | May intensify fire; oxidizer                         |
| H290 | May be corrosive to metals                           |
| H300 | Fatal if swallowed                                   |
| H314 | Causes severe skin burns and eye damage              |
| H318 | Causes serious eye damage                            |
| H331 | Toxic if inhaled                                     |
| H350 | May cause cancer                                     |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

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NFPA health hazard

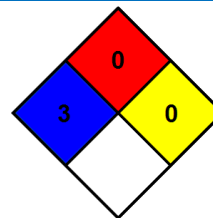
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

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.



HMIS III Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

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

: H

H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

SDS US LabChem

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