



# Gas Mixture (Argon Balance, Carbon Dioxide <10%, Oxygen 0.1ppm - 16.94%)

Safety Data Sheet PHXW-6304

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/2016    Revision date: 01/01/2016

## SECTION: 1. Product and company identification

### 1.1. Product identifier

Product form : Gas Mixture  
Other means of identification : PW Gas Blends

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

Use of the substance/mixture : Electric Arc Welding  
Industrial use

### 1.3. Details of the supplier of the safety data sheet

Phoenix Welding Supply Company, Inc.  
701 S. 7th Street  
Phoenix, AZ. 85034  
T 602-253-1108 - F 602-258-3187

### 1.4. Emergency telephone number

Emergency number : On-site Emergency: 602-253-1108

INFOTRACK 24 hr/day 7 days/week— Within USA: 1-800-535-5053

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Compressed gas H280

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS04

Signal word (GHS-US) :

WARNING

Hazard statements (GHS-US) :

H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED  
OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.  
CGA-HG01 - MAY CAUSE FROSTBITE.  
CGA-HG03 - MAY INCREASE RESPIRATION AND HEART RATE.

Precautionary statements (GHS-US) :

P202 - Do not handle until all safety precautions have been read and understood  
P261 - Avoid breathing gas, vapors  
P262 - Do not get in eyes, on skin, or on clothing.  
P271+P403 - Use and store only outdoors or in a well-ventilated place.  
CGA-PG05 - Use a back flow preventive device in the piping.  
CGA-PG10 - Use only with equipment rated for cylinder pressure.  
CGA-PG06 - Close valve after each use and when empty.  
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).

### 2.3. Other hazards

Other hazards not contributing to the classification :

Asphyxiant in high concentrations.



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Date of issue: 01/01/2016 Revision date: 01/01/2016

**Welding-specific:** For unique hazards specific to welding, see Sections 8.2, 10.6, and 16.

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

No data available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name           | Product identifier | %                  |
|----------------|--------------------|--------------------|
| Argon          | (CAS No) 7440-37-1 | 72.6947 - 99.99998 |
| Oxygen         | (CAS No) 7782-44-7 | 0.00001 - 16.94    |
| Carbon dioxide | (CAS No) 124-38-9  | < 10               |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may give oxygen. Call a physician.
- First-aid measures after skin contact : Wash with plenty of soap and water.. For exposure, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately. Get immediate medical attention.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

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

No additional information available

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

None.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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

No additional information available

### 5.3. Advice for firefighters

- Firefighting instructions : **WARNING: High pressure gas**
- Compressed gas: asphyxiant
- Suffocation hazard by lack of oxygen
- Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.
- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
- Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).



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Date of issue: 01/01/2005    Revision date: 09/01/2015    Supersedes: 05/01/2015

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : **WARNING: High-pressure gas.** Evacuate personnel to a safe area. Appropriate self-contained breathing apparatus may be required. Approach suspected leak area with caution. Remove all sources of ignition. if safe to do so. Reduce gas with fog or fine water spray. Stop flow of product if safe to do so. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, test for sufficient oxygen.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Try to stop release.

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 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 : Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

#### 7.3. Specific end use(s)

None.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|                          |                 |
|--------------------------|-----------------|
| <b>Argon (7440-37-1)</b> |                 |
| ACGIH                    | Not established |



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| Argon (7440-37-1)         |                                     |                        |
|---------------------------|-------------------------------------|------------------------|
| USA OSHA                  | Not established                     |                        |
| Carbon dioxide (124-38-9) |                                     |                        |
| ACGIH                     | ACGIH TLV-TWA (ppm)                 | 5000 ppm               |
| ACGIH                     | ACGIH TLV-STEL (ppm)                | 30000 ppm              |
| USA OSHA                  | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 9000 mg/m <sup>3</sup> |
| USA OSHA                  | OSHA PEL (TWA) (ppm)                | 5000 ppm               |
| Oxygen (7782-44-7)        |                                     |                        |
| ACGIH                     | Not established                     |                        |
| USA OSHA                  | Not established                     |                        |

### 8.2. Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | : Use a local exhaust system with sufficient flow velocity to maintain an adequate supply of air in the worker's breathing zone. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air. Ensure exposure is below occupational exposure limits (where available).   |
| Hand protection                  | : Wear work gloves when handling containers; welding gloves for welding. Gloves must be free of oil and grease.   |
| Eye protection                   | : Wear safety glasses with side shields.  |
| Skin and body protection         | : Wear work gloves and metatarsal shoes for cylinder handling. Protective equipment where needed. Select in accordance with OSHA 29 CFR 1910.132, 1910.136, and 1910.138. As needed for welding, wear hand, head, and body protection to help prevent injury from radiation and sparks. (See ANSI Z49.1.) At a minimum, this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, and shoulder protection as well as substantial clothing.  |
| Respiratory protection           | : When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). |
| Thermal hazard protection        | : Wear cold insulating gloves when transfilling or breaking transfer connections.   |

## SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state                              | : Gas               |
| Appearance                                  | : Colorless gas.    |
| Color                                       | : Colorless         |
| Odor  | : Odorless.         |
| Odor threshold                              | : No data available |
| pH  | : Not applicable.   |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Relative evaporation rate (ether=1)         | : Not applicable.   |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : No data available |
| Auto-ignition temperature                   | : No data available |
| Decomposition temperature                   | : No data available |
| Flammability (solid, gas)                   | : No data available |



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|                                 |  |
|---------------------------------|--|
| Vapor pressure                  | : Not applicable.  |
| Relative vapor density at 20 °C | : No data available  |
| Relative density                | : No data available  |
| Density                         | : 1.166 - 1.275 kg/m <sup>3</sup> HeliStar SS: 1.166 kg/m <sup>3</sup> (0.0728 lb/ft <sup>3</sup> ) , HeliStarCS: 1.275 kg/m <sup>3</sup> (0.0796 lb/ft <sup>3</sup> ) |
| Relative gas density            | : 0.962 - 1.062 HeliStar SS: 0.972, HeliStar CS: 1.062   |
| Solubility                      | : Water: No data available   |
| Log Pow                         | : Not applicable.  |
| Log Kow                         | : Not applicable.  |
| Viscosity, kinematic            | : Not applicable.  |
| Viscosity, dynamic              | : Not applicable.  |
| Explosive properties            | : Not applicable.  |
| Oxidizing properties            | : None.  |
| Explosion limits                | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Alkali metals, Alkaline earth metals, Acetylide forming metals, Chromium, Titanium > 1022°F (550°C), Uranium (U) > 1382°F (750°C), Magnesium > 1427°F (775°C).

### 10.6. Hazardous decomposition products

Using this product in welding and cutting may create additional hazards. The arc from electric arc welding may form gaseous reaction products such as carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Other decomposition products of arc welding and cutting originate from the volatilization, reaction, and oxidization of the material being worked.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | : Not classified                        |
| Skin corrosion/irritation         | : Not classified<br>pH: Not applicable. |
| Serious eye damage/irritation     | : Not classified<br>pH: Not applicable. |
| Respiratory or skin sensitization | : Not classified                        |
| Germ cell mutagenicity            | : Not classified                        |
| Carcinogenicity                   | : Not classified                        |
| Reproductive toxicity             | : Not classified                        |



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Specific target organ toxicity (single exposure) : Not classified  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No ecological damage caused by this product.

### 12.2. Persistence and degradability

| PW - Argon/CO2/Oxygen Mixtures |  |
|--------------------------------|--|
| Persistence and degradability  | No ecological damage caused by this product. |
| Argon (7440-37-1)              |  |
| Persistence and degradability  | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9)      |  |
| Persistence and degradability  | No ecological damage caused by this product. |
| Oxygen (7782-44-7)             |  |
| Persistence and degradability  | No ecological damage caused by this product. |

### 12.3. Bioaccumulative potential

| PW - Argon/CO2/Oxygen Mixtures |  |
|--------------------------------|--|
| Log Pow                        | Not applicable.                              |
| Log Kow                        | Not applicable.                              |
| Bioaccumulative potential      | No ecological damage caused by this product. |
| Argon (7440-37-1)              |  |
| Log Pow                        | Not applicable.                              |
| Log Kow                        | Not applicable.                              |
| Bioaccumulative potential      | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9)      |  |
| BCF fish 1                     | (no bioaccumulation)                         |
| Log Pow                        | 0.83   |
| Log Kow                        | Not applicable.                              |
| Bioaccumulative potential      | No ecological damage caused by this product. |
| Oxygen (7782-44-7)             |  |
| Log Pow                        | Not applicable.                              |
| Log Kow                        | Not applicable.                              |
| Bioaccumulative potential      | No ecological damage caused by this product. |

### 12.4. Mobility in soil

| PW - Argon/CO2/Oxygen Mixtures |  |
|--------------------------------|--|
| Mobility in soil               | No data available.                           |
| Argon (7440-37-1)              |  |
| Mobility in soil               | No data available.                           |
| Ecology - soil                 | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9)      |  |
| Mobility in soil               | No data available.                           |
| Ecology - soil                 | No ecological damage caused by this product. |
| Oxygen (7782-44-7)             |  |
| Mobility in soil               | No data available.                           |
| Ecology - soil                 | No ecological damage caused by this product. |



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### 12.5. Other adverse effects

Effect on ozone layer : None.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

## SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s., 2.2  
UN-No.(DOT) : UN1956  
Proper Shipping Name (DOT) : Compressed gas, n.o.s.  
Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115  
Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Symbols : G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in parentheses following the PSN.

### Additional information

Other information : No supplementary information available.  
Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:  
- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

### Transport by sea

UN-No. (IMDG) : 1956  
Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.  
Class (IMDG) : 2 - Gases

### Air transport

UN-No. (IATA) : 1956  
Proper Shipping Name (IATA) : Compressed gas, n.o.s.  
Class (IATA) : 2

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### PW - Argon/CO2/Oxygen Mixtures

|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Sudden release of pressure hazard<br>Immediate (acute) health hazard |
|-------------------------------------|--|

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.



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## Safety Data Sheet PHXW-6304

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Date of issue: 01/01/2016 Revision date: 01/01/2016

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

##### Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

##### Oxygen (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

#### PW- Argon/CO2/Oxygen Mixtures

|   |    |
|---|----|
| U.S. - California - Proposition 65 - Carcinogens List               | No |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No |

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

#### Argon (7440-37-1)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| 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) |
| No  | No  | No  | No  |                                   |

#### Carbon dioxide (124-38-9)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| 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) |
| No  | No  | No  | No  |                                   |

#### Oxygen (7782-44-7)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| 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) |
| No  | No  | No  | No  |                                   |





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Date of issue: 01/01/2016 Revision date: 01/01/2016

### Argon (7440-37-1)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Carbon dioxide (124-38-9)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Oxygen (7782-44-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

### Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Fumes and gases produced during welding and cutting processes can be dangerous to your health and may cause serious lung disease. KEEP YOUR HEAD OUT OF FUMES. DO NOT BREATHE FUMES AND GASES. Use enough ventilation, local exhaust, or both to keep fumes and gases from your breathing zone and the general area. Short-term overexposure to fumes may cause dizziness, nausea, and dryness or irritation of the nose, throat, and eyes; or may cause other similar discomfort. Contaminants in the air may add to the hazard of fumes and gases. One such contaminant, chlorinated hydrocarbon vapors from cleaning and degreasing activities, poses a special risk. DO NOT USE ELECTRIC ARCS IN THE PRESENCE OF CHLORINATED HYDROCARBON VAPORS—HIGHLY TOXIC PHOSGENE MAY BE PRODUCED. Metal coatings such as paint, plating, or galvanizing may generate harmful fumes when heated. Residues from cleaning materials may also be harmful. AVOID ARC OPERATIONS ON PARTS WITH PHOSPHATE RESIDUES (ANTI-RUST, CLEANING PREPARATIONS)—HIGHLY TOXIC PHOSPHINE MAY BE PRODUCED.

Phoenix Welding Supply Company, Inc. asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within our company. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of our company, it is the user's obligation to determine the conditions of safe use of the product.

Phoenix Welding Supply Company, Inc. SDSs are furnished on sale or delivery by us or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your sales representative, local distributor, or supplier, or download from [www.phxwelding.com](http://www.phxwelding.com). If you have questions regarding our SDSs, would like the document number and date of the latest SDS, or would like the names of our suppliers in your area, phone or write us at 602-253-1108; Address: 701 S. 7th Street Phoenix, AZ. 85034



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Date of issue: 01/01/2016    Revision date: 01/01/2016

NFPA health hazard

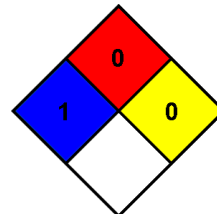
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

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

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 0 Minimal Hazard

Physical

: 3 Serious Hazard