# Gas Mixture (Argon balance, 0.1ppm - 3.10% Hydrogen)

## Safety Data Sheet P-4860


**Date of issue:** 01/01/1985  **Revision date:** 10/24/2016  **Supersedes:** 08/28/2015

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## SECTION: 1. Product and company identification

### 1.1. Product identifier

| Product form | : Mixture |
| Name | : Gas Mixture (Argon balance, 0.1ppm - 3.10% Hydrogen) |
| Other means of identification | : HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas Industrial Gas Mix |

### 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

Praxair, Inc.
10 Riverview Drive
Danbury, CT 06810-6268 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
[www.praxair.com](http://www.praxair.com)

### 1.4. Emergency telephone number

| Emergency number | : Onsite Emergency: 1-800-645-4633 |

CHEMTREC, 24hr/day 7days/week
— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
(collect calls accepted, Contract 17729)

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## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**
Compressed gas H280

### 2.2. Label elements

| Hazard pictograms (GHS-US) | : |

**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 |

| Precautionary statements (GHS-US) | : P202 - Do not handle until all safety precautions have been read and understood 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 |

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

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EN (English US)  SDS ID: P-4860

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2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>(CAS No) 7440-37-1</td>
<td>96.9 - 99.99999</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>(CAS No) 1333-74-0</td>
<td>0.00001 - 3.1</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact: Adverse effects not expected from this product.

First-aid measures after eye contact: Adverse effects not expected from this product. In case of eye irritation: Immediately flush eyes thoroughly with water for at least 15 minutes. Consult an ophthalmologist if irritation persists.

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

Reactivity: None.

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 firefighters: 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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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, check the area with an appropriate device.

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

See also sections 8 and 13.

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

<table>
<thead>
<tr>
<th>Argon (7440-37-1)</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Argon (7440-37-1)</th>
<th>USA OSHA</th>
<th>Not established</th>
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</thead>
<tbody>
<tr>
<td>Hydrogen (1333-74-0)</td>
<td>USA OSHA</td>
<td>Not established</td>
</tr>
</tbody>
</table>

**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.

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.

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. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection : None necessary.

**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
- Vapor pressure : Not applicable.
- Relative vapor density at 20 °C : No data available
- Relative density : No data available
- Density : 0.5401 kg/m³ (Vapor density @ 21.1°C, 1 atm)
- Relative gas density : 1.31 - 1.37 (calculated value)
- 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.

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Oxidizing properties : None.
Explosion limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None.

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
No additional information available

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

**Hydrogen (1333-74-0)**

| LC50 inhalation rat (ppm) | > 15000 ppm/1h |

Skin corrosion/irritation : Not classified
pH: Not applicable.

Serious eye damage/irritation : Not classified
pH: Not applicable.

Respiratory or skin sensilization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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

<table>
<thead>
<tr>
<th>HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas</th>
<th>Persistence and degradability</th>
<th>No ecological damage caused by this product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon (7440-37-1)</td>
<td>Persistence and degradability</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Hydrogen (1333-74-0)</td>
<td>Persistence and degradability</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas</th>
<th>Log Pow</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Kow</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No ecological damage caused by this product.</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>Argon (7440-37-1)</td>
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</tr>
<tr>
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<td>Bioaccumulative potential</td>
<td>No ecological damage caused by this product.</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>Hydrogen (1333-74-0)</td>
<td>BCF fish</td>
<td>(no bioaccumulation expected)</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>Log Pow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>Log Kow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No ecological damage caused by this product.</td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas</th>
<th>Mobility in soil</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon (7440-37-1)</td>
<td>Mobility in soil</td>
<td>No data available.</td>
</tr>
<tr>
<td></td>
<td>Ecology - soil</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Hydrogen (1333-74-0)</td>
<td>Mobility in soil</td>
<td>No data available.</td>
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<tr>
<td></td>
<td>Ecology - soil</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

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.
Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
**Gas Mixture (Argon balance, 0.1ppm - 3.10% Hydrogen)**

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**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

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**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

<table>
<thead>
<tr>
<th>HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SARA Section 311/312 Hazard Classes</strong></td>
</tr>
<tr>
<td>All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Argon (7440-37-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>

**Hydrogen (1333-74-0)**

| Listed on the Canadian DSL (Domestic Substances List) |

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**EU-Regulations**
15.2.2. National regulations
No additional information available

15.3. US State regulations

<table>
<thead>
<tr>
<th>HydroStar H2 Shielding Gas, HydroStar H3 Shielding Gas()</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Reproductive Toxicity - Female</th>
<th>U.S. - California - Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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

<table>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Argon (7440-37-1)</th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
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.

Praxair 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 Praxair, Inc. 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 Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product.

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NFPA health hazard: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
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: 0 Minimal Hazard - No significant risk to health
Flammability: 0 Minimal Hazard
Physical: 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair
Gas Mixture (Argon balance, 0.1ppm - 3.10% Hydrogen)
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.