



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 20 October 2017 Revision date: 24 May 2019 Supersedes: 12 June 2018 Version: 1.2

SECTION 1: Identification				
1.1. Identification				
Product form : M	/lixture			
Trade name : 0	Sas No. 1, Argon and Hydrogen			
1.2. Recommended use and restrictions on us	e			
Use of the substance/mixture	Jsed for sintering, purging and iner	ting furnace		
Restrictions on use : N	Not suitable for human consumptio	n		
4.2 Ourselies				
1.3. Supplier				
OS SIG Avenue Purlington MA 01902				
T 078 224 1244				
vava desktopmetal com				
www.desktopmetal.com				
1.4. Emergency telephone number				
Emergency number : 9	78-224-1244 (Hours: 9:00 am to 9	5:00 pm Easterr	n time)	
SECTION 2 ⁻ Hazard(s) identification				
2.1. Classification of the substance or mixture				
GHS-US classification	a average and asues repid suffered	tion		
Gases under pressure Compressed gas Contains ga	is under pressure: may explode if l	heated		
Hazard Not Otherwise Classified Contact with	the liquefied gas causes frostbite	•		
2.2. GHS Label elements, including precaution	nary statements			
GHS US labeling				
Hazard pictograms (GHS US)	\wedge			
	$\mathbf{\vee}$			
Signal word (GHS US) : V	Varning			
Hazard statements (GHS US) : 0	Contains gas under pressure; may	explode if heate	ed	
N	/lay displace oxygen and cause ra	pid suffocation		
Precautionary statements (GHS LIS)	Protect from sunlight. Store in a we	ll-ventilated play		
· recationary statements (end do)	Toteet norm sumight. Otore in a we			
2.3 Other hazards which do not result in class	sification			
No additional information available	, inclution			
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 2: Composition/Information on	ingradiante			
SECTION 3: Composition/information on	Ingredients			
3.1. Substances				
Not applicable				
J.Z. WIXLURES	— • • • • • • • • • • • • • • • • • • •			1
Name	Product identifier	%	GHS-US classification	4
Argon	(CAS-No.) /440-37-1	96.9 - 99	Simple Asphy Press. Gas (Comp.), H280	
Hydrogen	(CAS-No.) 1333-74-0	< 3.10	Simple Asphy	1
			Flam. Gas 1, H220 Press, Gas (Comp.), H280	
			1 1000. 000 (00mp.), 11200	1



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 after inhalation	 Allow affected person to breathe fresh air. Give artificial respiration if necessary. If unconscious, place in the recovery position and seek medical advice. 	
First-aid measures after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use. May cause frostbite on contact with liquefied gas. On frostbite: rinse with plenty of water, do NOT remove clothes. Get medical advice/attention.	
First-aid measures after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use. May cause frostbite on contact with liquefied gas. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.	
4.2. Most important symptoms and effects	(acute and delayed)	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.	
Symptoms/effects after inhalation	: May displace oxygen and cause rapid suffocation.	
Symptoms/effects after skin contact	: May cause frostbite on contact with liquefied gas.	
Symptoms/effects after eye contact	: May cause frostbite on contact with liquefied gas. Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.	
Symptoms/effects after ingestion	: Ingestion is not considered a potential route of exposure.	
4.3. Immediate medical attention and speci	al treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	j media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.	
Unsuitable extinguishing media	: Do not aim water directly at point where compressed gas is escaping, as the water may freeze.	
5.2. Specific hazards arising from the chem	ical	
Fire bazard		
	combustion products. None known.	
Explosion hazard	: Contains gas under pressure; may explode if heated.	
Reactivity in case of fire	: None known.	
5.3. Special protective equipment and prec	autions for fire-fighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Do not aim water directly at point where compressed gas is escaping, as the water may freeze. Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release measu	res	
6.1. Personal precautions, protective equip	ment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Stop leak if safe to do so.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
No special environmental precautions required.		
6.3. Methods and material for containment	and cleaning up	
Methods for cleaning up	Provide adequate ventilation. Stop leak if safe to do so. For further information refer to section 13.	
6.4. Reference to other sections		
For further information refer to section 8: "Exposure	controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations"	



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Handle and open container with care. Provide adequate ventilation. Ensure that there is a suitable ventilation system. Do not handle in a confined space. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, includin	g any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use. Cylinders should be firmly secured to prevent falling or being knocked over. Cylinders must be protected from the environment, and preferably kept at room temperature. Cylinders should be stored in dry, well ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a "first-on, first out" inventory system to prevent full containers from being stored for long periods of time.
Incompatible materials	: Halogens. Strong oxidizing agents.
Storage temperature	: < 50 °C
Storage area	: Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrogen (1333-74-0)				
ACGIH	Local name	Hydrogen		
ACGIH	Remark (ACGIH)	TLV® Basis: Simple Asphyxiant		
ACGIH Regulatory reference		ACGIH 2019		
Argon (7440-37-1)				
ACGIH	Local name	Argon		
ACGIH	Remark (ACGIH)	TLV® Basis: Simple Asphyxiant		
ACGIH	Regulatory reference	ACGIH 2019		

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Use loose-fitting rubber or leather gloves.

Eye protection:

Safety glasses.

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and ch	1. Information on basic physical and chemical properties		
Physical state	: Gas		
Appearance	: Clear.		
Color	: Colorless		
Odor	: Odorless		
Odor threshold	: Not applicable		
рН	: No data available		
24 May 2019	EN (English US)	3/7	



according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	Not applicable
Flammability (solid, gas)	:	Non flammable
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water: Not miscible
Log Pow	:	No data available
Auto-ignition temperature	:	Not self-igniting
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	Not applicable.

9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
Stable under normal conditions of use.			
10.2. Chemical stability			
Stable under normal conditions of use.			
10.3. Possibility of hazardous reactions			
Hazardous polymerization will not occur. Under fir	e conditions closed containers may rupture or explode.		
10.4. Conditions to avoid			
Direct sunlight. Do not manipulate the product in a	a confined space.		
10.5. Incompatible materials			
Halogens. Strong oxidizing agents.			
10.6. Hazardous decomposition products			
None known.			
SECTION 11: Toxicological information	on		
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)		
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)		
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)		
Hydrogen (1333-74-0)			
LC50 inhalation rat (ppm)	> 15000 ppm/1h		
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)		
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)		
Respiratory or skin sensitization	Not classified (Based on available data, the classification criteria are not met)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)		
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)		
Specific target organ toxicity – single exposure	: Not classified (Based on available data, the classification criteria are not met)		
Specific target organ toxicity – repeated : Not classified (Based on available data, the classification criteria are not met) exposure			



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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard Viscosity, kinematic	 Not classified (Based on available data, the classification criteria are not met) No data available
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May displace oxygen and cause rapid suffocation.
Symptoms/effects after skin contact	: May cause frostbite on contact with liquefied gas.
Symptoms/effects after eye contact	: May cause frostbite on contact with liquefied gas. Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.
Symptoms/effects after ingestion	: Ingestion is not considered a potential route of exposure.
Other information	: Likely routes of exposure: inhalation, skin and eye.

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

: Ecological problems are not known or expected under normal use.

12.2. Persistence and degradability

Gas No. 1, Argon and Hydrogen		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Gas No. 1, Argon and Hydrogen		
Bioaccumulative potential	Not established.	
Hydrogen (1333-74-0)		
BCF fish 1	(no bioaccumulation expected)	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects Effect on global warming

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

SECT	SECTION 13: Disposal considerations				
13.1.	Disposal methods				
Produ	ct/Packaging disposal recommendations	:	Dispose in a safe manner in accordance with local/national regulations.		
Ecolo	yy - waste materials	:	Avoid release to the environment.		

: G - Identifies PSN requiring a technical name

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

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



: 302;305 : 314;315

: 306;307

DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)
DOT Symbols
DOT Dealessing Exceptions (40 CED 472 year)

DOT Packaging Exceptions (49 CFR 173.xxx)



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Quantity Limitations Cargo aircraft only (4)i150 kgDOT Vessel Stowage LocationiA - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.Emergency Response Guide (ERG) Numberi126Other informationiNo supplementary information available.Transportation of Dangerous GoodsiUN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TOG)iUN1956Proper Shipping Name (Transportation of Dangerous Goods)i2.2 class 2.2 - Non-Flammable, Non-Toxic Gas.TOG Special Provisionsi16Explosive Limit and Limited Quantity Indexi0.125 LPassenger Carrying Road Vehicle or Passengeri75 LTransport document description (IMDG)iUN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (MOG)i102 LPassenger Carrying Road Vehicle or PassengeriTransport document description (IMDG)iUN-No. (MDG)iUN-No. (MDG)iUN-No. (MDG)i2 - GasesLimited quantities (IMDG)iAir transportTransport document description (IATA)iDisplang Name (IATA)i <tr <td="">Displang Name (IATA)<!--</th--><th>DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)</th><th>:</th><th>75 kg</th></tr> <tr><td>DOT Vessel Stowage Location:A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.Emergency Response Guide (ERG) Number:1 26Other information:No supplementary information available.Transportation of Dangerous Goods:UN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG):UN1956Proper Shipping Name (Transportation of Dangerous Goods):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2TDG Primary Hazard Classes:2.2 - class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions:1 6Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Road Vehicle Index:1 5 LTransport by sea::1 956Proper Shipping Name (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG)::1 956Proper Shipping Name (IMDG)::UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG)::1 956Proper Shipping Name (IMDG)::<td>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)</td><td>:</td><td>150 kg</td></td></tr> <tr><td>Emergency Response Guide (ERG) Number i 126 Other information i No supplementary information available. Transportation of Dangerous Goods i UN1956 Transport document description i UN1956 Proper Shipping Name (Transportation of Dangerous Goods) i COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2 TDG Primary Hazard Classes i 2.2.2 · Class 2.2 · Non-Flammable, Non-Toxic Gas. TDG Special Provisions i 16 Explosive Limit and Limited Quantity Index i 0.125 L Passenger Carrying Rad Vehicle or Passenger i 75 L Transport document description (IMDG) i 1956 Proper Shipping Name (IMDG) i 2 · Gases Limited quantities (IMDG) i 2 · Gases Limited quantities (IMDG) i 2 · Din VIN-No. (IATA) i 10 N1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2</td><td>DOT Vessel Stowage Location</td><td>:</td><td>A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.</td></tr> <tr><td>Other informationiNo supplementary information available.Transportation of Dangerous GoodsTransport document descriptioniUN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG)iUN1956Proper Shipping Name (Transportation of Dangerous Goods)iCOMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)TDG Primary Hazard Classesi2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisionsi16Explosive Limit and Limited Quantity Indexi0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Indexi75 LTransport by seai1956Transport document description (IMDG)i1956Proper Shipping Name (IMDG)i100 PRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG)i1956Proper Shipping Name (IMDG)i2 - GasesLimited quantities (IMDG)i120 mlLimited quantities (IMDG)i100 mlLimited quantities (IMDG)i100 mlUN-No. (IATA)i1956Proper Shipping Name (IATA)iUN-No. (ATA)i1956Proper Shipping Name (IATA)iUN-No. (IATA</td><td>Emergency Response Guide (ERG) Number</td><td>:</td><td>126</td></tr> <tr><td>Transportation of Dangerous GoodsTransport document description:UN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG):UN1956Proper Shipping Name (Transportation of Dangerous Goods)::TDG Primary Hazard Classes::2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions:::Zassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index:::Transport by sea::::Transport document description (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Yanger Shipping Name (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Yanger Shipping Name (IATA):::Yanger Shipping Name (IATA):::<td>Other information</td><td>:</td><td>No supplementary information available.</td></td></tr> <tr><td>Transport document description: UN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG): UN1956Proper Shipping Name (Transportation of Dangerous Goods): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)TDG Primary Hazard Classes: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions: 16Explosive Limit and Limited Quantity Index: 0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 5 LTransport by sea:Transport document description (IMDG): UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG): UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2Proper Shipping Name (IMDG): UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2Class (IMDG): 1956Proper Shipping Name (IMDG): 2 - GasesLimited quantities (IMDG): 10 mlAir transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): 0.00000000000000000000000000000000000</td><td>Transportation of Dangerous Goods</td><td></td><td></td></tr> <tr><td>UN-No. (TDG): UN1956Proper Shipping Name (Transportation of Dangerous Goods): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)TDG Primary Hazard Classes: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions: 16Explosive Limit and Limited Quantity Index: 0.125 LPassenger Carrying Road Vehicle or Passenger: 75 LCarrying Railway Vehicle Index: 0.125 LTransport by sea: UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG): UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG): 1956Proper Shipping Name (IMDG): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2Class (IMDG): 120 mlAir transport: 120 mlTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2Class (IATA): 1956Proper Shipping Name (IATA): 1956Proper Shipping Name (IATA): 2Class (IATA): 2</td><td>Transport document description</td><td>:</td><td>UN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2</td></tr> <tr><td>Proper Shipping Name (Transportation of Dangerous Goods):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)TDG Primary Hazard Classes::2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions::16Explosive Limit and Limited Quantity Index::0.125 LPassenger Carrying Road Vehicle or Passenger::75 LCarrying Railway Vehicle Index::VI 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2Transport by sea:::VI-No. (IMDG)::UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Passenger Carrying Name (IMDG)::::::::Class (IMDG)::</td><td>UN-No. (TDG)</td><td>:</td><td>UN1956</td></tr> <tr><td>TDG Primary Hazard Classes:2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions:16Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index:75 LTransport by sea:::Transport document description (IMDG):!UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Proper Shipping Name (IMDG):!:::::Class (IMDG)::<!--</td--><td>Proper Shipping Name (Transportation of Dangerous Goods)</td><td>:</td><td>COMPRESSED GAS, N.O.S. 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(ARGON, HYDROGEN MIXTURE), 2.2Class (IMDG)::</td><td>TDG Special Provisions</td><td>:</td><td>16</td></tr> <tr><td>Passenger Carrying Road Vehicle Index: 75 LCarrying Railway Vehicle Index: 75 LTransport by sea: UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG): UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG): 1956Proper Shipping Name (IMDG): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG): 2 - GasesLimited quantities (IMDG): 120 mlAir transport: UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2Proper Shipping Name (IATA): 2Proper Shipping Name (IATA): 2</td><td>Explosive Limit and Limited Quantity Index</td><td>:</td><td>0.125 L</td></tr> <tr><td>Transport by seaTransport document description (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):1956Proper Shipping Name (IMDG):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG):2 - GasesLimited quantities (IMDG):120 mlTransport document description (IATA):UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA):1956Proper Shipping Name (IATA):1956Proper Shipping Name (IATA):22Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2Class (IATA):2</td><td>Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index</td><td>:</td><td>75 L</td></tr> <tr><td>Transport document description (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):1956Proper Shipping Name (IMDG):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG):2 - GasesLimited quantities (IMDG):120 mlArr transportTransport document description (IATA):UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA):1956Proper Shipping Name (IATA):1956Very Shipping Name (IATA):2Class (IATA):2</td><td>Transport by sea</td><td></td><td></td></tr> <tr><td>UN-No. (IMDG): 1956Proper Shipping Name (IMDG): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG): 2 - GasesLimited quantities (IMDG): 120 mlArr transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Transport document description (IMDG)</td><td>:</td><td>UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2</td></tr> <tr><td>Proper Shipping Name (IMDG): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG): 2 - GasesLimited quantities (IMDG): 120 mlAir transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>UN-No. (IMDG)</td><td>:</td><td>1956</td></tr> <tr><td>Class (IMDG): 2 - GasesLimited quantities (IMDG): 120 mlAir transport: UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Proper Shipping Name (IMDG)</td><td>:</td><td>COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)</td></tr> <tr><td>Limited quantities (IMDG): 120 mlAir transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Class (IMDG)</td><td>:</td><td>2 - Gases</td></tr> <tr><td>Air transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Limited quantities (IMDG)</td><td>:</td><td>120 ml</td></tr> <tr><td>Transport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Air transport</td><td></td><td></td></tr> <tr><td>UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>Transport document description (IATA)</td><td>:</td><td>UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2</td></tr> <tr><td>Proper Shipping Name (IATA): Compressed gas, n.o.s. (Argon, Hydrogen mixture)Class (IATA): 2</td><td>UN-No. (IATA)</td><td>:</td><td>1956</td></tr> <tr><td>Class (IATA) : 2</td><td>Proper Shipping Name (IATA)</td><td>:</td><td>Compressed gas, n.o.s. (Argon, Hydrogen mixture)</td></tr> <tr><td></td><td>Class (IATA)</td><td>:</td><td>2</td></tr>	DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	75 kg	DOT Vessel Stowage Location:A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.Emergency Response Guide (ERG) Number:1 26Other information:No supplementary information available.Transportation of Dangerous Goods:UN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG):UN1956Proper Shipping Name (Transportation of Dangerous Goods):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2TDG Primary Hazard Classes:2.2 - class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions:1 6Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Road Vehicle Index:1 5 LTransport by sea::1 956Proper Shipping Name (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG)::1 956Proper Shipping Name (IMDG)::UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG)::1 956Proper Shipping Name (IMDG):: <td>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)</td> <td>:</td> <td>150 kg</td>	DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	150 kg	Emergency Response Guide (ERG) Number i 126 Other information i No supplementary information available. Transportation of Dangerous Goods i UN1956 Transport document description i UN1956 Proper Shipping Name (Transportation of Dangerous Goods) i COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2 TDG Primary Hazard Classes i 2.2.2 · Class 2.2 · Non-Flammable, Non-Toxic Gas. TDG Special Provisions i 16 Explosive Limit and Limited Quantity Index i 0.125 L Passenger Carrying Rad Vehicle or Passenger i 75 L Transport document description (IMDG) i 1956 Proper Shipping Name (IMDG) i 2 · Gases Limited quantities (IMDG) i 2 · Gases Limited quantities (IMDG) i 2 · Din VIN-No. (IATA) i 10 N1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2	DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	Other informationiNo supplementary information available.Transportation of Dangerous GoodsTransport document descriptioniUN1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (TDG)iUN1956Proper Shipping Name (Transportation of Dangerous Goods)iCOMPRESSED GAS, N.O.S. 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(ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Passenger Carrying Name (IMDG)::::::::Class (IMDG)::	UN-No. (TDG)	:	UN1956	TDG Primary Hazard Classes:2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.TDG Special Provisions:16Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index:75 LTransport by sea:::Transport document description (IMDG):!UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):::Proper Shipping Name (IMDG):!:::::Class (IMDG):: </td <td>Proper Shipping Name (Transportation of Dangerous Goods)</td> <td>:</td> <td>COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)</td>	Proper Shipping Name (Transportation of Dangerous Goods)	:	COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)	TDG Special Provisions:16Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger:75 LCarrying Railway Vehicle Index:Vehicle or PassengerTransport by sea::Transport document description (IMDG):!UN-No. (IMDG):1956Proper Shipping Name (IMDG):::::Class (IMDG):: <td:< td="">:::</td:<>	TDG Primary Hazard Classes	:	2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.	Explosive Limit and Limited Quantity Index:0.125 LPassenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index:75 LTransport by sea::Transport document description (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):1956Proper Shipping Name (IMDG)::::COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2Class (IMDG)::	TDG Special Provisions	:	16	Passenger Carrying Road Vehicle Index: 75 LCarrying Railway Vehicle Index: 75 LTransport by sea: UN 1956 COMPRESSED GAS, N.O.S. 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(Argon, Hydrogen mixture), 2.2Class (IATA):2	Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	75 L	Transport document description (IMDG):UN 1956 COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE), 2.2UN-No. (IMDG):1956Proper Shipping Name (IMDG):COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG):2 - GasesLimited quantities (IMDG):120 mlArr transportTransport document description (IATA):UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA):1956Proper Shipping Name (IATA):1956Very Shipping Name (IATA):2Class (IATA):2	Transport by sea			UN-No. (IMDG): 1956Proper Shipping Name (IMDG): COMPRESSED GAS, N.O.S. (ARGON, HYDROGEN MIXTURE)Class (IMDG): 2 - GasesLimited quantities (IMDG): 120 mlArr transportTransport document description (IATA): UN 1956 Compressed gas, n.o.s. (Argon, Hydrogen mixture), 2.2UN-No. (IATA): 1956Proper Shipping Name (IATA): Compressed gas, n.o.s. 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SECTION 15: Regulatory information

15.1. US Federal regulations

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

15.2. International regulations

CANADA

Hydrogen (1333-74-0)				
Listed on the Canadian DSL (Domestic Substances List)				
Argon (7440-37-1)				
Argon (7440-37-1)				

EU-Regulations

Hydrogen (1333-74-0)	
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Listed on the EEC inventory EINECS (European In	nventory of Existing Commercial Chemical Substances)
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Argon (7440-37-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hydrogen (1333-74-0)				
Listed on the AICS (Australian Inventory of Chemical Substances)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIOC (New Zealand Inventory of Chemicals)				
Listed on PICCS (Philippines inventory of Chemicals and Chemical Substances)				
Listed on the TCSI (Taiwan Chemical Substance Inventory)				
Argon (7440-37-1)				
Listed on the AICS (Australian Inventory of Chemical Substances)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zealand Inventory of Chemicals)				
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
Listed on INSQ (Mexican National Inventory of Chemical Substances)				
LISTER ON THE LL SULLATIVAN CHEMICAL SUBSTANCE INVENTORY)				

15.3. US State regulations

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

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 24 May 2019

Full text of H-phrases:

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated

Indication of changes:

Section	Changed item	Change	Comments
3	Composition/information on	Modified	
	ingredients		

SDS US (GHS HazCom 2012)

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.