

1.1. Product identifier Product form : Mixtures Trade name : ARC GAS 4 Product code : CA-2002-05262 Other means of identification : Oxygen (200% - 5.00%) in Argon 1.2. Recommended uses and restrictions on use Recommended uses and restrictions : Test/Calibration gas Shielding gas for arc welding. 1.3. Supplier ARC-1 Welding Supplies Ltd. 3351 Richmond St. Lucan, ON NOM 2J0 Office 226-213-4363 Office 226-213-4363 Sa51 Richmond St. Lucan, ON NOM 2J0 Office 226-213-4363 Office 226-213-4363 Sa54 Richmond St. Lucan, ON NOM 2J0 Office 226-213-4363 Office 226-213-4363 Sa51 Richmond St. Lucan, ON NOM 2J0 Office 226-213-4363 Supplier 1.4. Emergency telephone number Emergency number: 911 Poison Centre: 1:844-764-7669 SECTION 2: Hazard identification Classification of the substance or mixture Classification of He substance or mixture Classification of He substance or mixture Classification of He substance or mixture Classification (GHS-CA) Gases under pressure: compressed gas H280 Full text of H statement	SECTION 1: Identification	
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Recommended uses and restrictions : Test/Calibration gas Shielding gas for arc welding. 13.1 Suppler ARC-1 Welding Supples Ltd. 33351 Richmond St. Lucan, ON NOW 200 Office 226-213-4363 Fix 226-313-2470 www.arc.1.ca 14.4 Emergency telephone number Emergency number: 91 Poison Centre: 1.444-764-7669 SECTION 2: Hazard Identification 2.1. Classification of the substance or mixture Classification (GHS-CA) Gases under pressure: Compressed gas 12.2 GHS Label elements , including precautionary statements CHS-CA labeling Hazard pictograms (GHS-CA) Signal word (GHS-CA) Signal word (GHS-CA) Precautionary statements (GHS-CA) Precautio		
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Emergency number: 91 Poison Centre: 1.844-764-7669 SECTION 2: Hazard Identification 2.1. Classification of the substance or mixture Classification (GHS-CA) Gases under pressure: Compressed gas H280 Full text of H statements : see section 15 2.2. GHS Label elements, including precautionary statements GHS-CA labeling Hazard pictograms (GHS-CA) Fignal word (GHS-CA) Fignal word (GHS-CA) Figual texternents (GHS-CA) Precautionary statements (GHS-CA) Figual texternents (GHS-CA) Figual word (GHS-CA) Figual word (GHS-CA) Figual word (GHS-CA) Figual texternents (GHS-CA) Figual word (GHS-CA) Figual word (GHS-CA) Figual word (GHS-CA) Figual to the statements (GHS-CA)	ARC-1 Welding Supplies Ltd. 33351 Richmond St. Lucan, ON N0M 2J0 Office 226-213-4363 Fax 226-313-2470 www.arc-1.ca	
Poison Centre: 1-944-764-7669 SECTION 2: Hazard Identification 2.1. Classification of the substance or mixture Classification (GHS-CA) Gases under pressure: Compressed gas H280 Full text of H statements: see section 16 2.2. GHS Label elements, including precautionary statements GHS-CA labeling Hazard pictograms (GHS-CA) Signal word (GHS-CA) Hazard statements (GHS-CA) Frecautionary statements (GHS-CA) Precautionary statem		
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Signal word (GHS-CA) : Warning Hazard statements (GHS-CA) : H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation Precautionary statements (GHS-CA) : P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. P403 - Store in a well-ventilated place P202 - Do not handle until all safety precautions have been read and understood P308+P313 - IF exposed or concerned: Get medical advice/attention P280 - Wear eye protection, face protection, protective gloves P271 - Use only outdoors or in a well-ventilated area P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52 °C/125 °F CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution CGA-PG21 - Open valve slowly 2.3. Other hazards	Gases under pressure: Compressed gas Full text of H statements : see section 16 2.2. GHS Label elements, including GHS-CA labelling Hazard pictograms (GHS-CA)	
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Precautionary statements (GHS-CA) : P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. P403 - Store in a well-ventilated place P202 - Do not handle until all safety precautions have been read and understood P308+P313 - IF exposed or concerned: Get medical advice/attention P280 - Wear eye protection, face protection, protective clothing, protective gloves P271 - Use only outdoors or in a well-ventilated area P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52 °C/125 °F CGA-PG05 - Use a back flow preventive device in the piping CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution CGA-PG21 - Open valve slowly 23.	Hazard statements (GHS-CA)	: H280 - Contains gas under pressure; may explode if heated
	Precautionary statements (GHS-CA)	 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. P403 - Store in a well-ventilated place P202 - Do not handle until all safety precautions have been read and understood
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	2.3. Other hazards	P280 - Wear eye protection, face protection, protective clothing, protective gloves P271 - Use only outdoors or in a well-ventilated area P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52 °C/125 °F CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution

2.4. Unknown acute toxicity (GHS-CA)

No data available



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SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures				
Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Argon	Argon, compressed	(CAS-No.) 7440-37-1	98	Press. Gas (Comp.), H280
Oxygen	Liquid oxygen / Oxygen (dissolved) / Oxygen (liquid) / Oxygen, refrigerated liquid / Oxygen, dissolved / Oxygen, compressed / Oxygen gas / OXYGEN	(CAS-No.) 7782-44-7	2	Ox. Gas 1, H270 Press. Gas (Comp.), H280

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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
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.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effect	cts (acute and delayed)
Symptoms/effects after inhalation	: May displace oxygen and cause rapid suffocation.
Symptoms/effects after skin contact	: Adverse effects not expected from this product.
Symptoms/effects after eye contact	: Adverse effects not expected from this product.
Symptoms/effects after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/effects upon intravenous administration	: Not known.
Chronic symptoms	: Adverse effects not expected from this product.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Other medical advice or treatment	: If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

SECTION 5: Fire-fighting measure	25
5.1. Suitable extinguishing media	~
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
5.2. Unsuitable extinguishing media	
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.3. Specific hazards arising from the	e hazardous product
Fire hazard	: The product is not flammable.
Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed container and increasing risk of burns and injuries.	
Hazardous combustion products	: None
5.4. Special protective equipment an	nd precautions for fire-fighters
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Exposure to fire may cause containers to rupture/explode. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Standard protective clothing and equipment (e.g, Self-Contained Breathing Apparatus) for fire fighters. Do not enter the fire area without proper protective equipment, including respiratoryprotection.

6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Ensure adequate ventilation.
Personal Precautions, Protective Equipment and Emergency Procedures	: EVACUATE ALL PERSONNEL FROM THE AFFECTED AREA. Use appropriate protective equipment. If a leak is on user's equipment, be certain to purge piping before attempting repairs. If a leak is on a container or container valve contact the closest ARC-1 Welding Supplies Ltd. location.



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6.2. Methods and materials for containn	nent and cleaning up	
For containment	: Try to stop release if without risk.	
Methods for cleaning up	: Dispose of contents/container in accordance with local/regional/national/international regulations.	
6.3. Reference to other sections		
For further information refer to section 8: "Expos	ure controls/personal protection"	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.	
Hygiene measures	: Do not eat, drink or smoke when using this product.	
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Use only with equipment rated for cylinder pressure. Close valve after each use and when empty.	
7.2. Conditions for safe storage, includi	ng any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Do not be exposed to temperatures exceeding 52 °C/ 125 °F. Keep container closed when not inuse. Protect cylinders from physical damage; do not drag, roll, slide or drop. Store in well-ventilated area.	
Incompatible products	: None known.	
Incompatible materials	: None known.	

SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure exposure is below occupational exposure limits (where available). Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
9.2 Individual protection measures/Per	construction aquipment

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Safety shoes.

Hand protection:

Wear working gloves when handling gas containers.

Eye protection:

Wear safety glasses with side shields.

Skin and body protection:

Wear suitable protective clothing, e.g. lab coats, coveralls or flame-resistant clothing.

Respiratory protection:

None necessary during routine operations. See Sections 5 & 6





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Thermal hazard protection:

None necessary during routine operations.

Other information:

Wear safety shoes while handling containers.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Clear, colorless gas.
Colour	: Colorless
Odour	: Odorless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable (non-flammable gas)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: See Section 2.1 and 2.2
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Solubility	: Water: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not applicable (non-flammable gas).
Oxidising properties	: None.
Explosive limits	: Not applicable (non-flammable gas)
9.2. Other information	

9.2. Other information No additional information available

SECTION 10: Stability and react	ivity
10.1. Reactivity	
Reactivity	: None known.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: None known.
Hazardous decomposition products	: Under normal conditions of storage and use hazardous decomposition products should not be produced.

SECTION IT: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Oxygen (7782-44-7)	
LC50 inhalation rat (ppm)	800000 ppm/4h



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820000 ppm/4h
: Not classified
: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Oxygen (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
Argon (7440-37-1)	
Persistence and degradability	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Oxygen (7782-44-7)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
Argon (7440-37-1)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
12.4. Mobility in soil	
Oxygen (7782-44-7)	
Log Pow	Not applicable for inorganic gases.
Ecology - soil	No ecological damage caused by this product.
Argon (7440-37-1)	
Log Pow	Not applicable for inorganic gases.
Ecology - soil	No ecological damage caused by this product.
12.5. Other adverse effects	
Effect on ozone layer	: No known effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal considerations	s
13.1. Disposal methods	
Waste treatment methods	 Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Product/Packaging disposal recommendations	: Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods.

: None known.

Ecology - waste materials

SECTION 14: Transport information



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14.1. Basic shipping description

In accordance with TDG Transportation of Dangerous Goods

UN-No. (TDG) TDG Primary Hazard Classes Transport Document Description Proper Shipping Name

Hazard labels (TDG)

TDG Special Provisions

: UN1956

- : 2.2 Class 2.2 Non-Flammable, Non-Toxic Gas.
- : UN1956 Compressed gas, n.o.s., 2.2
- : Compressed gas, n.o.s.

: 2.2 - Non-flammable, non-toxic gases



: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306 148 - (1) Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles if (a)the working pressure in each receptacle is less than 5 000 KPa; (b)the capacity of each receptacle is less than 12 L; (c)each receptacle has a minimum burst pressure of (i)at least 3 times the working pressure, when the receptacle is fitted with a relief device, or (ii)at least 4 times the working pressure, when the receptacle is not fitted with a relief device; (d)each receptacle is manufactured from material that will not fragment upon rupture; (e)each detector is manufactured under a quality assurance program; ISO 9001:2008 is an example of a quality assurance program. (f)the detectors are transported in strong outer means of containment; and (g)a detector in its outer means of containment is capable of withstanding a 1.2 m drop test without breakage of the detector or rupture of the outer means of containment. (2)Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles and that are included in equipment, if (a)the conditions set out in paragraphs (1)(a) to (e) are met; and (b)the equipment is contained in a strong outer means of containment or the equipment affords the detectors with protection that is equivalent to that provided by a strong outer means of containment. (3)These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles, including detectors in radiation detection systems, if the detectors meet the requirements of subsection (1) or (2), as applicable, and the capacity of the receptacles that contain the detectors is less than 50 m.l. SOR/2014-306 0.125 L 0

Explosive Limit and Limited Quantity Index	:	0.125
Excepted quantities (TDG)	:	E0
Passenger Carrying Road Vehicle or Passenger	:	75 L
Carrying Railway Vehicle Index		

14.2.	Transport information/DOT - USA	
Depart	ment of Transport	
DOT N/	A no.	: UN1956
UN-No.	(DOT)	: 1956
DOT Sy	ymbols	: G - Identifies PSN requiring a technical name



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Transport Document Description Proper Shipping Name (DOT)	: UN1956 Compressed gas, n.o.s., 2.2
Contains Statement Field Selection (DOT)	: Compressed gas, n.o.s. : DOT_TECHNICAL - Proper Shipping Name - Technical (DOT)
Class (DOT) Division (DOT)	 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 2.2 Non-flammable and
Hazard labels (DOT)	: 2.2 - Non-flammable gas
Dangerous for the environment	: No
DOT Packaging Exceptions (49 CFR 173.xxx)	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 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.
Other information	: No supplementary information available.
Other information 14.3. Air and sea transport	: No supplementary information available.
	: No supplementary information available.
14.3. Air and sea transport	 No supplementary information available. 1956
14.3. Air and sea transport IMDG	
14.3.Air and sea transportIMDGUN-No. (IMDG)Proper Shipping Name (IMDG)Transport Document Description (IMDG)	 : 1956 : Compressed gas, n.o.s. : UN 1956 Compressed gas, n.o.s., 2.2
14.3.Air and sea transportIMDGUN-No. (IMDG)Proper Shipping Name (IMDG)Transport Document Description (IMDG)Class (IMDG)	: 1956 : Compressed gas, n.o.s.
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14.3. Air and sea transport IMDG UN-No. (IMDG) Proper Shipping Name (IMDG) Transport Document Description (IMDG) Class (IMDG) IATA UN-No. (IATA) Proper Shipping Name (IATA) Transport Document Description (IATA) Class (IATA) SECTION 15: Regulatory information	 1956 Compressed gas, n.o.s., UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Non-flammable, non-toxic gases 1956 Compressed gas, n.o.s., UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Gases : Non-flammable, non-toxic
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14.3. Air and sea transport IMDG UN-No. (IMDG) Proper Shipping Name (IMDG) Transport Document Description (IMDG) Class (IMDG) IATA UN-No. (IATA) Proper Shipping Name (IATA) Transport Document Description (IATA) Class (IATA) SECTION 15: Regulatory information 15.1. National regulations Oxygen (7782-44-7) Listed on the Canadian DSL (Domestic Substant Argon (7440-37-1)	 1956 Compressed gas, n.o.s. UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Non-flammable, non-toxic gases 1956 Compressed gas, n.o.s. UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Gases : Non-flammable, non-toxic
14.3. Air and sea transport IMDG UN-No. (IMDG) Proper Shipping Name (IMDG) Transport Document Description (IMDG) Class (IMDG) IATA UN-No. (IATA) Proper Shipping Name (IATA) Transport Document Description (IATA) Class (IATA) SECTION 15: Regulatory information 15.1. National regulations Oxygen (7782-44-7) Listed on the Canadian DSL (Domestic Substant)	 1956 Compressed gas, n.o.s. UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Non-flammable, non-toxic gases 1956 Compressed gas, n.o.s. UN 1956 Compressed gas, n.o.s., 2.2 2.2 - Gases : Non-flammable, non-toxic

Oxygen (7782-44-7)

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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) 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 United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)



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

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 United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Full text of H-statements:

un to			
	H270	May cause or intensify fire; oxidizer	
	H280	Contains gas under pressure; may explode if heated	

SDS Canada (GHS)

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