SAFETY DATA SHEET



Acetylene

Section 1. Identification

GHS product identifier	: Acetylene
Chemical name	: acetylene
Other means of identification	: Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene
Product use	: Synthetic/Analytical chemistry.
Synonym	: Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene
SDS #	: 001001
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable gas. May form explosive mixtures with air. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary statements	
General	: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Fusible plugs in top, bottom, or valve melt at 98°C to 107°C (208°F to 224°F). Do not discharge at pressures above 15psig (103kpa). Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach suspected leak area with caution.
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.
Storage	: Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well- ventilated place.
Disposal	: Not applicable.
Hazards not otherwise classified	: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Date of issue/Date of revision

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: acetylene
Other means of identification	: Ethyne; Ethine; Narcylen; C2H2; Acetylen; UN 1001; Vinylene

CAS number/other identifiers

CAS number	: 74-86-2
Product code	: 001001

Ingredient name	%	CAS number
acetylene	100	74-86-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. 		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: As this product is a gas, refer to the inhalation section.		

Most important symptoms/effects, acute and delayed

Potential acute health	<u>i effects</u>		
Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.		
Frostbite	: Try to warm up the frozen tissues and seek medical attention.		
Ingestion	: As this product is a gas, refer to the inhalation section.		
Over-exposure signs/	/symptoms		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: No specific data.		
Ingestion	: No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 		
Specific treatments	: No specific treatment.		

Date of issue/Date of revision

2/11

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
• • • • • •	

Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e equipment and emergency procedures
For non-emergency personnel	:	Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
Large spill	:	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

acetylene		NIOSH REL (United States, 10/2013).
		CEIL: 2662 mg/m ³ CEIL: 2500 ppm
ppropriate engineering ontrols	other engineering controls to keep work recommended or statutory limits. The e	process enclosures, local exhaust ventilation or er exposure to airborne contaminants below any ngineering controls also need to keep gas, lower explosive limits. Use explosion-proof
nvironmental exposure ontrols	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
ndividual protection measure	<u>S</u>	
Hygiene measures	eating, smoking and using the lavatory a Appropriate techniques should be used	to remove potentially contaminated clothing. sing. Ensure that eyewash stations and safety
Eye/face protection	assessment indicates this is necessary gases or dusts. If contact is possible, the	oved standard should be used when a risk to avoid exposure to liquid splashes, mists, ne following protection should be worn, unless see of protection: safety glasses with side-
Skin protection		

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Gas.
Color	1	Colorless.
Molecular weight	1	26.04 g/mole
Molecular formula	1	C2-H2
Melting/freezing point	1	-81°C (-113.8°F)
Critical temperature	;	35.25°C (95.5°F)
Odor	:	Mild. Ethereal.
Odor threshold	1	Not available.
рН	1	Not available.
Flash point	1	Closed cup: -18.15°C (-0.67°F)
Burning time	;	Not applicable.
Burning rate	;	Not applicable.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.
Lower and upper explosive (flammable) limits	1	Lower: 2.5% Upper: 100%
Vapor pressure	1	635 (psig)
Vapor density	1	0.907 (Air = 1)
Specific Volume (ft ³ /lb)	:	14.7058
Gas Density (lb/ft ³)	:	0.0691
Relative density	:	Not applicable.
Solubility	:	Not available.
Solubility in water	:	1.2 g/l
Partition coefficient: n-	:	0.37
octanol/water		
Auto-ignition temperature		305°C (581°F)
Decomposition temperature		Not available.
SADT		Not available.
Viscosity	ł	Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Oxidizers
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available.

routes of exposure

Potential acute health effects

Eye contact Inhalation Contact with rapidly expanding gas may cause burns or frostbite.No known significant effects or critical hazards.

	Date of	issue/Date	of revision	
--	---------	------------	-------------	--

: 6/7/2016

Section 11. Toxicological information

Skin contact	Contact with rapidly expanding gas may cause burr	ns or frostbite.
Ingestion	As this product is a gas, refer to the inhalation secti	on.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetylene	0.37	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

```
Disposal methods
```

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	ΙΑΤΑ
UN number	UN1001	UN1001	UN1001	UN1001	UN1001
UN proper shipping name	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED	ACETYLENE, DISSOLVED
Transport	2.1	2.1	2.1	2.1	2.1
hazard class(es)	TA MARATE GAS				
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: Forbidden.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	Passenger and Cargo <u>Aircraft</u> Quantity limitation: 0 Forbidden <u>Cargo Aircraft Only</u> Quantity limitation: 15 kg
	Cargo aircraft Quantity limitation: 15 kg	Explosive Limit and Limited Quantity Index 0			
		Passenger Carrying Ship Index 75			
		Passenger Carrying Road or Rail Index Forbidden			
		Special provisions 38			

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulation	ons : TS	SCA 8(a) CDR Exe	mpt/Parti	ial exemption:	Not determin	ned		
	Ur	nited States inven	tory (TSC	CA 8b): This ma	aterial is liste	d or exempted.		
	CI	ean Air Act (CAA)	112 regu	lated flammal	ole substanc	es: acetylene		
Clean Air Act Section (b) Hazardous Air Pollutants (HAPs)	on 112 : No	ot listed						
Clean Air Act Sectio Class I Substances	n 602 : No	ot listed						
Clean Air Act Sectio Class II Substances	n 602 : No	ot listed						
DEA List I Chemicals (Precursor Chemica		ot listed						
DEA List II Chemical (Essential Chemical	-	ot listed						
SARA 302/304								
Composition/inform	nation on ing	<u>redients</u>						
No products were for	ound.							
SARA 304 RQ	: No	ot applicable.						
<u>SARA 311/312</u>								
Classification		re hazard udden release of pr	essure					
Composition/inforr	<u>nation on ing</u>	<u>redients</u>						
Name		%	Fire	Sudden	Reactive	Immediate	Delayed	

	Name	%	hazard	Sudden release of pressure			Delayed (chronic) health hazard
í	acetylene	100	Yes.	Yes.	No.	No.	No.

: 5/24/2016

Version : 0.03

9/11

State regulationsMassachusetts: This material is listed.New York: This material is not listed.New Jersey: This material is listed.Pennsylvania: This material is listed.International regulationsInternational listsNational inventoryAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptCanada: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptCanada: This material is listed or exemptRepublic of Korea: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	etylene	100		Yes.	Yes.
New York: This material is not listed.New Jersey: This material is listed.Pennsylvania: This material is listed.International regulations: This material is listed.International regulations: This material is listed.International lists: This material is listed or exemptAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: Class A: Compressed gas. Class B-1: Flammable gas.	regulations				
New Jersey: This material is listed.Pennsylvania: This material is listed.International regulations: This material is listed.International inventory: This material is listed or exemptAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: Class A: Compressed gas. Class B-1: Flammable gas.	sachusetts :	This materia	l is listed		
Pennsylvania: This material is listed.International regulationsInternational listsNational inventoryAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	York :	This materia	l is not lis	sted.	
International regulationsInternational listsNational inventoryAustralia: This material is listed or exemptedCanada: This material is listed or exemptedChina: This material is listed or exemptedEurope: This material is listed or exemptedJapan: This material is listed or exemptedMalaysia: Not determined.New Zealand: This material is listed or exemptedPhilippines: This material is listed or exemptedRepublic of Korea: This material is listed or exemptedTaiwan: This material is listed or exemptedCanada: WHMIS (Canada)WHMIS (Canada): Class A: Compressed gas. Class B-1: Flammable gas.	/ Jersey :	This materia	l is listed		
International listsNational inventoryAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	nsylvania :	This materia	l is listed		
National inventoryAustralia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	national regulations				
Australia: This material is listed or exemptCanada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	rnational lists				
Canada: This material is listed or exemptChina: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	onal inventory				
China: This material is listed or exemptEurope: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	tralia :	This materia	l is listed	or exemp	oted.
Europe: This material is listed or exemptJapan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	ada :	This materia	l is listed	or exemp	oted.
Japan: This material is listed or exemptMalaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	na :	This materia	l is listed	or exemp	oted.
Malaysia: Not determined.New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	ope :	This materia	l is listed	or exemp	oted.
New Zealand: This material is listed or exemptPhilippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	an :	This materia	l is listed	or exemp	oted.
Philippines: This material is listed or exemptRepublic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	aysia :	Not determin	ned.		
Republic of Korea: This material is listed or exemptTaiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	/ Zealand :	This materia	l is listed	or exemp	oted.
Taiwan: This material is listed or exemptCanada: Class A: Compressed gas. Class B-1: Flammable gas.	ippines :	This materia	l is listed	or exemp	oted.
Canada WHMIS (Canada) : Class A: Compressed gas. Class B-1: Flammable gas.	ublic of Korea :	This materia	l is listed	or exemp	oted.
WHMIS (Canada) : Class A: Compressed gas. Class B-1: Flammable gas.	van :	This materia	l is listed	or exemp	oted.
Class B-1: Flammable gas.	<u>da</u>				
•	HMIS (Canada) :				
				•	
Class F: Dangerously reactive n		Class F: Dar	igerously	reactive	material.
Date of issue/Date of revision : 6/7/2016 Date of previous issu	f issue/Date of revision : 6/7	/2016	Date of p	revious iss	ue

Acetylene

Section 15. Regulatory information

CEPA Toxic substances: This material is not listed. Canadian ARET: This material is not listed. Canadian NPRI: This material is listed. Alberta Designated Substances: This material is not listed. Ontario Designated Substances: This material is not listed. Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements	1	Class A: Compressed gas.
		Class B-1: Flammable gas.
		Class F: Dangerously reactive material.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
	Expert judgment According to package

<u>History</u>	
Date of printing	: 6/7/2016
Date of issue/Date of revision	: 6/7/2016
Date of previous issue	: 5/24/2016
Version	: 0.03

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.