SAFETY DATA SHEET



Flammable Gas Mixture: Acetylene / Ethylene / Isopentane / Methane / Propane /

Propylene

Section 1. Identification

GHS product identifier	: Flammable Gas Mixture: Acetylene / Ethylene / Isopentane / Methane / Propane / Propylene
Other means of identification	: Not available.
Product use	: Synthetic/Analytical chemistry.
SDS #	: 012561
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Emergency telephone number (with hours of operation)	: 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 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. May cause drowsiness and dizziness. Harmful to aquatic life with long lasting effects.
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. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach suspected leak area with caution.
Prevention	: Never Put cylinders into unventilated areas of passenger vehicles. Keep away from heat, sparks, open flames and hot surfaces No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing gas. Use and store only outdoors or in a well ventilated place.
Date of issue/Date of revision	: 1/8/2015. Date of previous issue : 1/8/2015. Version : 0.03 1/13

Section 2. Hazards identification

Response	 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.
Storage	 Store locked up. Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.
Section 3. Comp	osition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 012561

Ingredient name	%	CAS number
methane	0.1 - 99	74-82-8
Propane	0.1 - 99	74-98-6
propene	0.01 - 50	115-07-1
ethylene	0.01 - 50	74-85-1
isopentane	0.01 - 20	78-78-4
acetylene	1 - 5	74-86-2

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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

Date of issue/Date of revision	: 1/8/2015.	Date of previous issue	: 1/8/2015.	Version : 0.03	2/13
--------------------------------	-------------	------------------------	-------------	----------------	------

Section 4. First aid measures

Potential acute health effe		
Eye contact	Contact with rapidly expanding gas may cause burns or frostbite.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.	
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	Can cause central nervous system (CNS) depression. As this product is a gas, refer the inhalation section.	⁻ to
<u>Over-exposure signs/sym</u>	<u>ns</u>	
Eye contact	No specific data.	
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate me	al 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.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask self-contained breathing apparatus. It may be dangerous to the person providing aid give mouth-to-mouth resuscitation.	or

See toxicological information (Section 11)

Section 5. Fire-fighting measures

: Use an extinguishing agent suitable for the surrounding fire.
: None known.
: 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide

Date of issue/Date of revision : 1/8/2015	Date of previous issue	: 1/8/2015.	Version : 0.03	3/13
---	------------------------	--------------------	----------------	------

Section 5. Fire-fighting measures

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, protective 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment 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

: 1/8/2015.

Precautions for safe handling

Date of issue/Date of revision

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. Avoid release to the environment. 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.

Date of previous issue

: 1/8/2015.

Version : 0.03

4/13

Section 7. Handling and storage

including any

```
incompatibilities
```

Conditions for safe storage, : 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). Store locked up. 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

Ingredient name		Exposure limits				
ethylene		TWA: 200 ppm 8 hours.	ACGIH TLV (United States, 3/2012). TWA: 200 ppm 8 hours.			
isopentane		ACGIH TLV (United States, 3 TWA: 600 ppm 8 hours.	/2012).			
Appropriate engineering controls	other engineering control recommended or statutor	entilation. Use process enclosures, local exha s to keep worker exposure to airborne contami y limits. The engineering controls also need to ons below any lower explosive limits. Use exp	inants below any o keep gas,			
Environmental exposure controls	they comply with the requ cases, fume scrubbers, fi	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.				
Individual protection meas	ures					
Hygiene measures	eating, smoking and usin Appropriate techniques s	nd face thoroughly after handling chemical pro g the lavatory and at the end of the working pe hould be used to remove potentially contamina ing before reusing. Ensure that eyewash stati workstation location.	riod. Ited clothing.			
Eye/face protection	assessment indicates this gases or dusts. If contact	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.				
Skin protection						
Hand protection	worn at all times when ha necessary. Considering during use that the gloves noted that the time to bre glove manufacturers. In	rvious gloves complying with an approved stan indling chemical products if a risk assessment the parameters specified by the glove manufact are still retaining their protective properties. I akthrough for any glove material may be different the case of mixtures, consisting of several sub ves cannot be accurately estimated.	indicates this is cturer, check t should be ent for different			
Body protection	performed and the risks i handling this product. W static protective clothing.	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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.				
Other skin protection		any additional skin protection measures shou performed and the risks involved and should be this product.				
Date of issue/Date of revision	: 1/8/2015. Date of previo	ous issue : 1/8/2015. Version	:0.03 5/13			

Section 8. Exposure controls/personal protection

```
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	Gas.	
Color	Not avail	able.
Melting/freezing point		13.8°F) This is based on data for the following ingredient: acetylene. Weighted -182.37°C (-296.3°F)
Critical temperature	Lowest k	nown value: -82.45°C (-116.4°F) (methane).
Odor	Not avail	able.
Odor threshold	Not avail	able.
рН	Not avail	able.
Flash point	Not avail	able.
Burning time	Not appli	cable.
Burning rate	Not appli	cable.
Evaporation rate	Not avail	able.
Flammability (solid, gas)	Not avail	able.
Lower and upper explosive (flammable) limits	Not avail	able.
Vapor pressure	Not avail	able.
Vapor density	Highest k	nown value: 1.6 (Air = 1) (propane). Weighted average: 1.14 (Air = 1)
Gas Density (lb/ft ³)	Weighted	d average: 0.14
Relative density	Not appli	cable.
Solubility	Not avail	able.
Solubility in water	Not avail	able.
Partition coefficient: n- octanol/water	Not avail	able.
Auto-ignition temperature	Not avail	able.
Decomposition temperature	Not avail	able.
SADT	Not avail	able.
Viscosity	Not appli	cable.

Section 10. Stability and reactivity

: 1/8/2015.

Date of issue/Date of revision

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.

Date of previous issue

: 1/8/2015.

Section 10. Stability and reactivity

Incompatibility with various : Extremely reactive or incompatible with the following materials: oxidizing materials. **substances**

Hazardous decomposition : 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

Product/ingredient name	Result	Species	Dose	Exposure
isopentane	LC50 Inhalation Vapor	Rat	280000 mg/m³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
ethylene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
ethylene	Category 3		Narcotic effects
isopentane	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
isopentane	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Date of issue/Date of revision	: 1/8/2015.	Date of previous issue	: 1/8/2015.	Version : 0.03	7/13

Section 11. Toxicological information

Potential acute health effects

Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Ingestion	: Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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 eff	<u>ects</u>
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 bazards

- : No known significant effects or critical hazards. Teratogenicity
- : No known significant effects or critical hazards. **Developmental effects**
- **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
ethylene	1.13	-	low
isopentane	3	171	low

Mobility in soil

Soil/water partition	
coefficient (Koc)	

: Not available.

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	UN1954	UN1954	UN1954	UN1954	UN1954
UN proper shipping name	COMPRESSED GAS, FLAMMABLE, N.O.S. (methane, propane)				
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Date of issue/Date of revision : 1/8/2015. Date of previous issue : 1/8/2015. Version : 0.03 9/13					

Section 14. Transport information

Section	4. mansp				
Additional information	-	Explosive Limit and Limited Quantity Index 0.125	-	-	-
		ERAP Index 3000			
		<u>Passenger Carrying</u> <u>Ship Index</u> Forbidden			
		Passenger Carrying Road or Rail Index Forbidden			

"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 regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Air Act (CAA) 112 regulated flammable substances: Isopentane; propane; ethylene; propene; methane; acetylene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Fire hazard Sudden release of pressure Immediate (acute) health hazard
Composition/information	on ingredients

Section 15. Regulatory information

Name	%		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
ethylene isopentane		Yes. Yes.		No. No.	Yes. Yes.	No. No.

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements			0.01 - 50 0.01 - 50
Supplier notification			0.01 - 50 0.01 - 50

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	 The following components are listed: ISOPENTANE; PROPANE; ETHYLENE; PROPYLENE (PROPENE); METHANE; ACETYLENE
New York	: None of the components are listed.
New Jersey	 The following components are listed: ISOPENTANE; BUTANE, 2-METHYL-; PROPANE; ETHYLENE; ETHENE; PROPYLENE; 1-PROPENE; METHANE; ACETYLENE; ETHYNE
Pennsylvania	 The following components are listed: BUTANE, 2-METHYL-; PROPANE; ETHENE; 1-PROPENE; METHANE; ETHYNE
Canada inventory	: All components are listed or exempted.
International regulations	
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed
<u>Canada</u> WHMIS (Canada)	: Class A: Compressed gas. Class B-1: Flammable gas. Class D-2B: Material causing other toxic effects (Toxic).

Flammable Gas Mixture: Acetylene / Ethylene / Isopentane / Methane / Propane / Propylene

Section 15. Regulatory information

CEPA Toxic substances: The following components are listed: Methane
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Pentane (all isomers); Propane; Ethylene; Propylene; Volatile organic compounds; Acetylene
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas. Class B-1: Flammable gas. Class D-2B: Material causing other toxic effects (Toxic).

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

Health	1	
Flammability	4	
Physical hazards	3	
	·	

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.

<u>History</u>	
Date of printing	: 1/8/2015.
Date of issue/Date of revision	: 1/8/2015.
Date of previous issue	: 1/8/2015.
Version	: 0.03

Date of issue/Date of revision	: 1/8/2015.	Date of previous issue	: 1/8/2015.	Version : 0.03	12/13
--------------------------------	-------------	------------------------	-------------	----------------	-------

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 = 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 NationsACGIH – American Conference of Governmental Industrial Hygienists AIHA – American Industrial Hygiene Association CAS – Chemical Abstract Services CEPA – Canadian Environmental Protection Act CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA) CFR – United States Code of Federal Regulations CPR – Controlled Products Regulations DSL – Domestic Substances List GWP – Global Warming Potential IARC – International Qency for Research on Cancer ICAO – International Agency for Research on Cancer ICAO – International Civil Aviation Organisation Inh – Inhalation LC – Lethal concentration LD – Lethal dosage NDSL – Non-Domestic Substances List NIOSH – National Institute for Occupational Safety and Health TDG – Canadian Transportation of Dangerous Goods Act and Regulations TLV – Threshold Limit Value TSCA – Toxic Substances Control Act WEEL – Workplace Environmental Exposure Level WHMIS – Canadian Workplace Hazardous Material Information System
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.

Date of issue/Date of revision : 1/8/2015. Date of previous issue : 1/8/2015. Version : 0.03 1
--