## **SAFETY DATA SHEET**



Flammable Gas Mixture: Acetylene / Ethane / Helium / N-Butane / N-Pentane /

Propane

## Section 1. Identification

GHS product identifier	: Flammable Gas Mixture: Acetylene / Ethane / Helium / N-Butane / N-Pentane / Propane
Other means of identification	: Not available.
Product use	: Synthetic/Analytical chemistry.
SDS #	: 012790
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	: 1-866-734-3438

Emergency telephone number (with hours of operation)

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
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 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Extremely flammable gas. May form explosive mixtures with air. 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.</li> </ul>
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	: 2/20/2015. Date of previous issue : No previous validation. Version : 0.01 1/13

## Section 2. Hazards identification

classified	oxygen and cause rapid suffocation. Osition/information on ingredients
Hazards not otherwise	: In addition to any other important health or physical hazards, this product may displace
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Storage	<ul> <li>Store locked up. Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.</li> </ul>
Response	<ul> <li>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.</li> </ul>

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

#### CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 012790

Ingredient name	%	CAS number	
Helium	75 - 95	7440-59-7	
ethane	1 - 5	74-84-0	
acetylene	1 - 5	74-86-2	
Propane	1 - 5	74-98-6	
Butane	1 - 5	106-97-8	
pentane	1 - 5	109-66-0	

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	<ul> <li>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.</li> </ul>
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

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## Section 4. First aid measures

Potential acute health effe	ts
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 to the inhalation section.
<u>Over-exposure signs/symp</u>	<u>toms</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 mee	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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 or self-contained breathing apparatus. 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

: 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

## 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

: 2/20/2015.

#### 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.

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4/13

## Section 7. Handling and storage

# 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). 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
Ingredient name pentane	ACGIH TLV (United States, 3/2012). TWA: 600 ppm 8 hours. NIOSH REL (United States, 1/2013). CEIL: 1800 mg/m <sup>3</sup> 15 minutes. CEIL: 610 ppm 15 minutes. TWA: 350 mg/m <sup>3</sup> 10 hours. TWA: 120 ppm 10 hours. OSHA PEL (United States, 6/2010). TWA: 2950 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989). STEL: 2250 mg/m <sup>3</sup> 15 minutes. STEL: 750 ppm 15 minutes. TWA: 1800 mg/m <sup>3</sup> 8 hours. TWA: 600 ppm 8 hours.

Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	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 measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	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	

## Section 8. Exposure controls/personal protection

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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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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 O. Dhusia	al and chamical properties

## Section 9. Physical and chemical properties

Appearance	
Physical state	: Gas.
Color	: Not available.
Melting/freezing point	<ul> <li>-81°C (-113.8°F) This is based on data for the following ingredient: acetylene. Weighted average: -250.7°C (-419.3°F)</li> </ul>
Critical temperature	: Lowest known value: -267.9°C (-450.2°F) (helium).
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Flash point	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Highest known value: 2.1 (Air = 1) (Butane). Weighted average: 0.36 (Air = 1)
Gas Density (lb/ft <sup>3</sup> )	: Weighted average: 0.01
Relative density	: Not applicable.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not applicable.
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## 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.	
Incompatibility with various substances	: Not considered to be reactive according to our database.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products sho not be produced.	ould

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
pentane	LC50 Inhalation Vapor	Rat	364 g/m³	4 hours

#### 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)

Name	• •	Route of exposure	Target organs
pentane	Category 3	Not applicable.	Narcotic effects
Specific target organ toxicity (repeated exposure) Not available.			

#### **Aspiration hazard**

Date of	issue/Date	of revision
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: 2/20/2015.

Date of previous issue

## Section 11. Toxicological information

Name	Result
pentane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	Not available.
Potential acute health effect	
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 phy Eye contact	<mark>cal, chemical and toxicological characteristics</mark> No specific data.
Eye contact Inhalation	•
Innalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo
Innalation	nausea or vomiting headache drowsiness/fatigue
Skin contact	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo

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

Short term exposure		
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	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.	
<b>Developmental effects</b>	: 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.

8/13

## Section 11. Toxicological information

## Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
pentane	3.45	171	low

#### **Mobility in soil**

Soil/water partition	: Not available.
coefficient (Koc)	

**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. (ethane, propane)				
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
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## Section 14. Transport information

	mansportin	normation			
Additional information	-	Explosive Limit and Limited Quantity Index 0.125	-	-	-
		ERAP Index 3000			
		Passenger Carrying Ship Index Forbidden			
		<b>Passenger Carrying</b> 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
	secure. Ensure that persons transporting the product know what to do in the 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) PAIR: pentane
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	TSCA 12(b) one-time export: pentane
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Air Act (CAA) 112 regulated flammable substances: ethane; acetylene; propane; Butane; pentane
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
<u>SARA 302/304</u>	
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
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## Section 15. Regulatory information

#### Composition/information on ingredients

Name	_	%	_	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
pentane		1 - 5	5	Yes.	No.	No.	Yes.	No.
tate regulations								
Massachusetts		The following BUTANE; PE		ients are	listed: HELIU	M; ETHANE; /	ACETYLENE; F	PROPANE;
New York	: N	None of the c	compone	nts are lis	sted.			
New Jersey		The following PROPANE; E				M; ETHANE; A	ACETYLENE; E	THYNE;
Pennsylvania		The following BUTANE; PE		ients are	listed: HELIU	M; ETHANE; I	ETHYNE; PRO	PANE;
anada inventory	: A	All componer	nts are lis	sted or ex	empted.			
nternational regulations		-						
	J M N F	lapan inven (orea inven Malaysia Inv New Zealand Philippines i	tory: No tory: All ventory ( d Invento inventor	t determin compone EHS Reg ory of Ch y (PICCS	ned. ints are listed jister): Not de emicals (NZ	<b>IoC)</b> : All comp nents are listed	empted. onents are liste l or exempted.	d or exemp
Chemical Weapons Convention List Schedule I Chemicals	: N	Not listed						
Chemical Weapons Convention List Schedule II Chemicals	: N	Not listed						
Chemical Weapons Convention List Schedule III Chemicals	: N	Not listed						
anada								
WHMIS (Canada)		lass A: Com lass B-1: Fla						
	C C C A A O	ompounds anadian AR anadian NP cetylene; Pro Iberta Desig ontario Desig	RET: Non PRI: The f opane; B gnated S gnated S	e of the c following utane (al Substanc Substanc	components a components l isomers); Pe es: None of t :es: None of t	re listed.	s are listed. ts are listed.	-

## Section 16. Other information

Canada Label requirements	1	Class A: Compressed gas.
		Class B-1: Flammable gas.

#### 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.)



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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	: 2/20/2015.
Date of issue/Date of revision	: 2/20/2015.
Date of previous issue	: No previous validation.
Version	: 0.01
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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 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</li> </ul>
Date of issue/Date of revision	: 2/20/2015. Date of previous issue : No previous validation. Version : 0.01 12/13

## Section 16. Other information

**CPR – Controlled Products Regulations** DSL – Domestic Substances List GWP – Global Warming Potential IARC – 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 : Not available.

#### References

#### ✓ 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.

13/13