

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/07/2014 Version: 1.0

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Blueshield 5
Product code	: SG-2002-02965
1.2. Relevant identified uses of the second	ubstance or mixture and uses advised against
Use of the substance/mixture	: Shielding gas for arc welding
1.3. Details of the supplier of the safe	ety data sheet
Air Liquide America Specialty Gases 6141 Easton Rd Plumsteadville, PA 18949 - USA T 1.800.217.2688 www.airliquide.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300
SECTION 2: Hazards identification	h
2.1. Classification of the substance of	
Classification (GHS-US)	
Compressed gas	H280
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated OSHA-H01 - May displace oxygen and cause rapid suffocation
Precautionary statements (GHS-US)	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves, protective clothing, eye protection, face protection P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P313 - Get medical advice/attention P403 - Store in a well-ventilated place P501 - Dispose of contents/container in accordance with local/regional/national/international regulations CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution CGA-PG21 - Open valve slowly</li> </ul>
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US	)
No data available	
SECTION 3: Composition/informa	tion on ingradiants

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

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3.2.	Mixture			
Name		Product identifier	%	Classification (GHS-US)
Argon		(CAS No)7440-37-1	95	Compressed gas, H280
Oxyger	1	(CAS No)7782-44-7	5	Ox. Gas 1, H270 Compressed gas, H280

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation :	Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact :	Adverse effects not expected from this product.
First-aid measures after eye contact :	Adverse effects not expected from this product.
First-aid measures after ingestion :	Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries :	Symptoms similar to those listed under inhalation.
Symptoms/injuries after inhalation :	May displace oxygen and cause rapid suffocation. If you feel unwell, seek medical advice.
Symptoms/injuries after skin contact :	Adverse effects not expected from this product.
Symptoms/injuries after eye contact :	Adverse effects not expected from this product.
Symptoms/injuries after ingestion :	Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous : administration	Not known.
Chronic symptoms :	None known.
4.3. Indication of any immediate medical a	ttention and special treatment needed
If breathing is difficult, give oxygen. Obtain medical	attention if breathing difficulty persists.
SECTION 5: Firefighting measures	
SECTION 5: Firefighting measures           5.1.         Extinguishing media	
5.1. Extinguishing media	Use extinguishing media appropriate for surrounding fire.
5.1.Extinguishing mediaSuitable extinguishing media:	Use extinguishing media appropriate for surrounding fire. Do not use water jet to extinguish.
5.1.Extinguishing mediaSuitable extinguishing media:	Do not use water jet to extinguish.
5.1.       Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       :         5.2.       Special hazards arising from the substitution	Do not use water jet to extinguish.
5.1.       Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       :         5.2.       Special hazards arising from the substitution in the substi	Do not use water jet to extinguish. tance or mixture
5.1.Extinguishing mediaSuitable extinguishing media:Unsuitable extinguishing media:5.2.Special hazards arising from the subsFire hazard:Explosion hazard:	Do not use water jet to extinguish. tance or mixture The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire
<b>5.1.</b> Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       : <b>5.2.</b> Special hazards arising from the subs         Fire hazard       :         Explosion hazard       :	Do not use water jet to extinguish. tance or mixture The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.1.       Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       :         5.2.       Special hazards arising from the subs         Fire hazard       :         Explosion hazard       :         Reactivity       :         5.3.       Advice for firefighters	Do not use water jet to extinguish. tance or mixture The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.1.       Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       :         5.2.       Special hazards arising from the subs         Fire hazard       :         Explosion hazard       :         Reactivity       :         5.3.       Advice for firefighters	Do not use water jet to extinguish. tance or mixture The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. None known. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or
5.1.Extinguishing mediaSuitable extinguishing media:Unsuitable extinguishing media:5.2.Special hazards arising from the subsFire hazard:Explosion hazard:Reactivity:5.3.Advice for firefightersFirefighting instructions:	Do not use water jet to extinguish. <b>tance or mixture</b> The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. None known. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
5.1.       Extinguishing media         Suitable extinguishing media       :         Unsuitable extinguishing media       :         5.2.       Special hazards arising from the subs         Fire hazard       :         Explosion hazard       :         Reactivity       :         5.3.       Advice for firefighters         Firefighting instructions       :         Protection during firefighting       :	Do not use water jet to extinguish. tance or mixture The product is not flammable. Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. None known. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection. INCL

<b>o.i.</b> Personal precautions, protective e	quipment and emergency procedures
General measures	: Ensure adequate ventilation.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment consistent with the site emergency plan.
Emergency procedures	: Escape the danger area by the closest safe route. Close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind.
6.1.2. For emergency responders	
Protective equipment	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate and limit access. Ventilate area.

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6.2. Environmental precautions	
Try to stop release if safe to do so.	
6.3. Methods and material for contain	nment and cleaning up
For containment	: Try to stop release if safe to do so.
Methods for cleaning up	: Dispose of this material and its container in accordance with local regulations.
6.4. Reference to other sections	
See also Sections 8 and 13.	
SECTION 7: Handling and storage	e
7.1. Precautions for safe handling	
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage.
Incompatible products	: None known.
Incompatible materials	: None known.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	
Argon (7440-37-1)	
8.2. Exposure controls	
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits. Oxygen detectors should be used when asphyxiating gases may be released. Consider work permit system e.g. for maintenance activities.
Hand protection	: Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection.
Eye protection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.
Respiratory protection	: None necessary during normal and routine operations.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other information	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and o	chemical properties	
Physical state	: Gas	
Appearance	: Clear, colorless gas.	
Color	: Colorless	
Odor	: odorless	
Odor threshold	: Not available	
рН	: Not available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Relative evaporation rate (ether=1)	: Not applicable for gas-mixtures.	
Melting point	: Not available	
Freezing point	: No data available	
Boiling point	: Not available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: Not available	
Relative vapor density at 20 °C	: Not available	
Relative density	: No data available	
Relative gas density	: Heavier than air	
Solubility	<ul> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>•: 61 mg/l</li> <li>•: 39 mg/l</li> </ul>	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: Not applicable	
Explosive properties	: Not applicable - not flammable.	
Oxidizing properties	: None.	
Explosive limits	: No data available	
9.2. Other information		
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
None known.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
None known.		
10.4. Conditions to avoid		
None under recommended storage and handling	g conditions (see section 7).	
10.5. Incompatible materials		
None known.		

10.6. Hazardous decomposition products

Under normal conditions of storage and use hazardous decomposition products should not be produced.

SECTI	ON 11: Toxicological informati	on		
11.1.	Information on toxicological effects			
Acute to	ticity	: Not classified		

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Argon (7440-37-1)	
LC50 inhalation rat (ppm)	410000 ppm/4h
Oxygen (7782-44-7)	
LC50 inhalation rat (ppm)	400000 ppm/4h
Skin corrosion/irritation	: Not classified
	pH: Not available
Serious eye damage/irritation	: Not classified
	pH: Not available
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation. If you feel unwell, seek medical advice.
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: None known.
12.1. Toxicity	
SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability	
12.1.       Toxicity         No additional information available       112.2.         Persistence and degradability       112.2.	
Toxicity           No additional information available	No ecological damage caused by this product.
Toxicity         No additional information available         12.2.       Persistence and degradability         Argon (7440-37-1)         Persistence and degradability	
Toxicity         No additional information available         12.2.       Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)	No ecological damage caused by this product.
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Toxicity         No additional information available         12.2.       Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3.       Bioaccumulative potential         Argon (7440-37-1)         Log Pow	No ecological damage caused by this product.
Toxicity         No additional information available         12.2.       Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3.         Bioaccumulative potential         Argon (7440-37-1)	No ecological damage caused by this product.         No ecological damage caused by this product.
Toxicity         No additional information available         12.2.       Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3.       Bioaccumulative potential         Argon (7440-37-1)         Log Pow	No ecological damage caused by this product.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)         Log Pow         Bioaccumulative potential	No ecological damage caused by this product.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         Not applicable for inorganic gases.         Not applicable for inorganic gases.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)	No ecological damage caused by this product.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)         Log Pow         Bioaccumulative potential	No ecological damage caused by this product.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         Not applicable for inorganic gases.         Not applicable for inorganic gases.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)         Log Pow         Bioaccumulative potential	No ecological damage caused by this product.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         Not applicable for inorganic gases.         Not applicable for inorganic gases.
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12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)         Log Pow         Bioaccumulative potential         12.4. Mobility in soil         Argon (7440-37-1)         Ecology - soil	No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         0xygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         0xygen (7782-44-7)         Log Pow         Bioaccumulative potential         12.4. Mobility in soil         Argon (7440-37-1)	No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.
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12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Argon (7440-37-1)         Persistence and degradability         Oxygen (7782-44-7)         Persistence and degradability         12.3. Bioaccumulative potential         Argon (7440-37-1)         Log Pow         Bioaccumulative potential         Oxygen (7782-44-7)         Log Pow         Bioaccumulative potential         12.4. Mobility in soil         Argon (7440-37-1)         Ecology - soil         Oxygen (7782-44-7)         Ecology - soil	No ecological damage caused by this product.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         Not applicable for inorganic gases.         No ecological damage caused by this product.         No ecological damage caused by this product.

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods	: Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Waste disposal recommendations	: Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods.
Additional information	: None.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s., 2.2
UN-No.(DOT)	: 1956
DOT NA no.	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.
Department of Transportation (DOT) Hazard Classes	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
lazard labels (DOT)	: 2.2 - Non-flammable gas
DOT Symbols	: G - Identifies PSN requiring a technical name
OOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
OT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
OT Packaging Bulk (49 CFR 173.xxx)	: 314;315
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 75 kg
OOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
OOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	
ransport document description	: UN 1956, 2.2, (E)
Class (ADR)	: 2 - Gases
lazard identification number (Kemler No.)	: 20
Classification code (ADR)	: 1A
lazard labels (ADR)	: 2.2 - Non-flammable compressed gas
Drange plates	20 1956
unnel restriction code (ADR)	: E
Q	: 120ml
Excepted quantities (ADR)	: E1
Fransport by sea	
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UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
Air transport	
UN-No.(IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2

## SECTION 15: Regulatory information

#### 15.1. US Federal regulations

No additional information available

# 15.2. International regulations CANADA Argon (7440-37-1) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas Oxygen (7782-44-7) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas Class A - Compressed Gas WHMIS Classification Class A - Compressed Gas Class C - Oxidizing Material

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

No additional information available

### 15.3. US State regulations

Argon (7440-37-1)	
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	
Oxygen (7782-44-7)	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Substance List	
U.S Pennsylvania - RTK (Right to Know) List	

SECTION 16: Other information	
Indication of changes	: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
Other information	<ul> <li>This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.</li> </ul>

Full text of H-phrases: see section 16:

Compressed gas	Gases under pressure Compressed gas
Ox. Gas 1	Oxidizing gases Category 1
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated

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SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.