

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/15/2015 Supersedes: 12/29/2014 Version: 1.2

	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Nitrogen Dioxide (5.00% - 11.49%) in Air
Product code	: SG-2002-00366
	e substance or mixture and uses advised against
Use of the substance/mixture	: Test gas/Calibration gas.
1.3. Details of the supplier of the s	safety data sheet
Air Liquide America Specialty Gases 6141 Easton Rd Plumsteadville, PA 18949 - USA T 1.800.217.2688 <u>www.airliquide.com</u>	
1.4. Emergency telephone numbe	r
Emergency number	: CHEMTREC: 1-800-424-9300
SECTION 2: Hazards identificat	ion
2.1. Classification of the substance	e or mixture
Classification (GHS-US)	
Ox. Gas 1	H270
Compressed gas	H280
Acute Tox. 3 (Inhalation:gas) Skin Corr. 1B	H331 H314
Eye Dam. 1	H318
STOT SE 2	H371
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS03 GHS04 GHS05 GHS06 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H270 - May cause or intensify fire; oxidizer H280 - Contains gas under pressure; may explode if heated H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H331 - Toxic if inhaled H371 - May cause damage to organs (lung) (Inhalation) CGA-HG11 - Symptoms may be delayed CGA-HG22 - Corrosive to the respiratory tract.
Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood P220 - Keep/Store away from clothing, combustible materials P244 - Keep reduction valves/valves and fittings free from oil and grease P260 - Do not breathe gas P262 - Do not get in eyes, on skin, or on clothing P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	P P P P C C C C C C C C C C C C C C C C	 333+P313 - If skin irritation or rash oc 337+P313 - If eye irritation persists: G 370+P376 - In case of fire: Stop leak i 403 - Store in a well-ventilated place 405 - Store locked up 501 - Dispose of contents/container in gulations GA-PG02 - Protect from sunlight whe GA-PG05 - Use a back flow preventiv GA-PG06 - Close valve after each use GA-PG10 - Use only with equipment of GA-PG18 - When returning cylinder, i GA-PG20 - Use only with equipment of GA-PG21 - Open valve slowly GA-PG22 - Use only with equipment of 	et medical advice/att if safe to do so a accordance with loc n ambient temperatur e device in the piping e and when empty rated for cylinder pres area with caution nstall leak tight valve of compatible materia	tention al/regional/national/international re exceeds 52°C (125°F) g ssure e outlet cap or plug als of construction
2.3. Other hazards				
Other hazards not contributing to the classification	: N	one.		
2.4. Unknown acute toxicity (GHS-	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on	ingredients		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	%	Classification (GHS-US)
Compressed air		(CAS No) 132259-10-0	88.51 - 95	Compressed gas, H280
Nitrogen dioxide		(CAS No) 10102-44-0	5 - 11.49	Ox. Gas 1, H270 Liquefied gas, H280 Acute Tox. 1 (Inhalation:gas), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 2, H371
Full text of H-phrases: see section 16				
SECTION 4: First aid measures				
.1. Description of first aid measur	es			
First-aid measures after inhalation		emove victim to fresh air and keep at nwell, seek medical advice.	rest in a position con	nfortable for breathing. If you feel
irst-aid measures after skin contact		skin irritation or rash occurs: Rinse sk		,
irst-aid measures after eye contact		nmediately flush eyes thoroughly with eek medical attention.	water for at least 15	minutes. If eye irritation develops,
irst-aid measures after ingestion	: In	gestion is not considered a potential r	oute of exposure.	
4.2. Most important symptoms and	effects, bo	oth acute and delayed		
Symptoms/injuries after inhalation		oxic if inhaled. May cause damage to ou feel unwell, seek medical advice.	organs (lung) throug	h single exposure (inhalation). If
Symptoms/injuries after skin contact		: CAUSES (SEVERE) SKIN BURNS.		
symptoms/injuries after eye contact		: Causes serious eye damage.		
Symptoms/injuries after ingestion		gestion is not considered a potential r	oute of exposure.	
Symptoms/injuries upon intravenous administration		ot known.		
Chronic symptoms	: N	one known.		
I.3. Indication of any immediate me	edical atter	ntion and special treatment needed		
f breathing is difficult, give oxygen. Obtain	medical att	ention if breathing difficulty persists.		
SECTION 5: Firefighting measur	es			
1 Extinguishing modia				

Unsuitab	ble extinguishing media	: Do not use water jet to extinguish.	
Suitable	extinguishing media	: Use extinguishing media appropriate for surrounding fire.	
5.1.	Extinguishing media		

Nitrogen Dioxide (5.00% - 11.49%) in Air Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Special hazards arising from the substance or mixture Fire hazard Improduct is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Reactivity Improve how in the substance of mixture and increasing risk of burns and injuries. Sa Advice for firefighters Improve how in the substance of the 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. Protection during firefighting Improve cooling exposed containers. Exercise caution when fighting any chemical fire. Protection during firefighting Improve cooling exposed containers. Exercise caution when fighting any chemical fire. Protection during firefighting Improve cooling exposed containers. Exercise caution when fighting any chemical fire. Sector of for cooling exposed containers. Examina documents of the fighters. Do not enter fire area without proper protective equipment, including respiratory protective equipment and emargency procedures Sector of for cooling exposed containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind: Examp close the danger area by the close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind: Sector optimes E Standard protective colting and equipment (e.g. Self Contained Breathing Apparatus) for fire fighters. Equip cleanup creas with proper protection. Semergroup		
Explosion hazard : Product is not explosive. Heat may build possure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Reactivity : None know. S.3 Advice for firefighters Firefighting instructions : 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 fighters. Protection during firefighting : Standard protective coluting and edupment (e.g., Set Contained Posething Appartus) for fire fighters. Do not enter fire area without proper protective equipment. Including respiratory protective equipment is not explosion. SECTION 6: Accidental release measures Ensure adequate ventilation. 61.1 For ono-mergency personnel Productive equipment : Exarce adequate ventilation. 61.2. For one-mergency responders Protective equipment : Evacuate and initia access. Ventilate area. Fighters. Explo te dongar area by the closed cors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low lying areas. Keep containers closed. Mark the danger area. Seal off low lying areas. Keep containers closed. Mark the danger area. Seal off low lying areas. Keep containers closed.	5.2. Special hazards arising from the subs	tance or mixture
and increasing risk of burns and injuries. In the definition of the section of th	Fire hazard :	The product is not flammable.
5.3. Advice for firefighters Firefighting instructions : 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. Protection during firefighting : Standard protective ciching and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures : Ensure adequate ventilation. 6.1. Personal processions, protective equipment and onergency procedures : Ensure adequate ventilation. 6.1. For non-emergency personnel : Wear protective equipment consistent with the site emergency plan. Protective equipment : Wear protective equipment consistent with the site emergency plan. Emergency procedures : Escape the danger area by the closest rafe route. Close doors and windows of adjacent previoet procedures c.1. For emergency responders : Standard protective cothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection. Erregency procedures : Standard protective equipment in access. Ventilate area. 6.2. Environmental precautions : Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up : To to stop release if safe to do so. 6.4. Reference to other sections <	Explosion hazard :	
Firefighting instructions In case of fire: Evacuate area. Fight fire remotely due to the skot of xplocion. Use water spray or log for cooling exposed containers. Exercise calution when fighting any chemical fire. Protection during firefighting Standard protective clothing and equipment (e.g., Self Contained Breaking Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release 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 : 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. 6.2. Environmental proceutions : Standard protective cothing 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. 6.2. Environmental proceutions : Evacuate and limit access. Ventilate area. 7 to to stop release if safe to do so. : Ty to stop rel	Reactivity :	None known.
or fog for cooling exposed containers. Exercise caulom when fighting any chemical file. Protection during firefighting :: Stendard protective colting and equipment (e.g., Set? Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures : Ensure adequate ventilation. 6.1. For non-emergency personnel Protective equipment : Wear protective equipment consistent with the site emergency plan. Emergency procedures : Escape the danger area by the closest ader oute. 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., Set? Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection. Emergency procedures : Evecuate and limit access. Ventilate area. 6.2. Environmental procautions Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up For containment : Try to stop release if safe to do so. Section 3: Setification and storage 7.1. Precautions for safe handling Additional hazards when processed : Pressurized containe	5.3. Advice for firefighters	
fighters. Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 5: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures General measures : Ensure adequate ventilation. 6.1. 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 permises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind. 6.1. For emergency responders : 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. 6.2. Environmental precautions : Evacuate and limit access. Ventilate area. 6.3. Methods and material for containment and cleaning up : Protective equipment : Try to stop release if safe to do so. 6.4. Reference to other sections : Dispose of this material and its container in accordance with local regulations. 6.4. Reference to other sections : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Precaulions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or in a w	Firefighting instructions :	
6.1. Personal precautions, protective equipment and emergency procedures General measures : Ensure adequate ventilation. 6.1.1. For non-emergency personnel Protective equipment 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 colohing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters: clupic cleanup crew with proper protection. Emergency procedures : Evacuate and limit access. Ventilate area. 6.2. Environmental preceutions Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up : Try to stop release if safe to do so. 6.4. Reference to other sections : Stop celease if safe to do so. SECTION 7: Handling and storage : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Precautions for safe handling : O not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Hylene measures : Do not handle until all safety precautions have been read and understood. Use only outdoors	Protection during firefighting :	fighters. Do not enter fire area without proper protective equipment, including respiratory
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 containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep containers closed to seal the close do seal the close of the close do seal the close of the close do seal the close of the sections 6.1. Reference to other sections : Try to stop release if safe to do so. 6.2. Cervicons of safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. 6.2. Cervicons for safe handling : Do not handle until all safety precautions for safe handling and understood. Use only outdoors or in a well-ventilated area. 7.1. Proceautions for safe storage, including any incompatibilities : Comply with applicable regulations. 8.1. Store locked up. Do not expose to temperatures exceeding 52°C	SECTION 6: Accidental release measu	ires
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., Seif Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection. Emergency procedures : Evacuate and limit access. Ventilate area. 6.2. Environmental procautions Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up For containment For containment : Try to stop release if safe to do so. 6.4. Reference to other sections Stearuiting and storage StectTION 7: Handling and storage : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Precautions for safe handling : Do not eat, drink or sonke when using this product. 7.1. Precautions for safe storage, including any incompatibilities : Do not eat, drink or sonke when using this product. 7.2. Conditions for safe storage, including any incompatibilities : Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in wel	6.1. Personal precautions, protective equi	pment and emergency procedures
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. 6.2. Environmental precautions Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up Protective could be safe to do so. 6.4. Reference to other sections See also Sections 8 and 13. SECTION 7: Handling and storage : 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. 7.1. Precautions for safe storage, including any incompatibilities : Do not ext, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities : Dornot expose to temperatures exceeding 52°C (125°F), Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. ricompatible materials	General measures :	Ensure adequate ventilation.
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, exception c1.2. 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. 6.2. Environmental proceations Try to stop release if safe to do so. : Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up For containment : Try to stop release if safe to do so. 6.4. Reference to other sections Sections 8 and 13. : Sections 8 and 13. : Sections for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or pressure. Precautions for safe handling : Do not ext, chink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperaturues exce	6.1.1. For non-emergency personnel	
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 unyind. 6.1.2. For emergency responders : 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. 6.2. Environmental procautions : Evacuate and limit access. Ventilate area. 6.3. Methods and material for containment and cleaning up : Try to stop release if safe to do so. For containment : Try to stop release if safe to do so. 6.4. Reference to other sections : Dispose of this material and its container in accordance with local regulations. 6.4. Reference to other sections : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. 7.1. Procautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Hydene measures : Do not eat, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect yinder from physical damage. Store in well ventilated area. Rorditions for safe storage, including until source yinder from	• • • •	Wear protective equipment consistent with the site emergency plan.
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. 6.2. Environmental precautions Try to stop release if safe to do so. . 6.3. Methods and material for containment 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. S SECTION 7: Handling and storage . 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 tandle until all safety precautions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect c	Emergency procedures :	premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep
Finderse. Equip cleanup crew with proper protection. Emergency procedures : Evacuate and limit access. Ventilate area. 6.2. Environmental precautions Try to stop release if safe to do so. . 6.3. Methods and material for containment and cleaning up For containment : Try to stop release if safe to do so. 6.4. Reference to other sections See also Sections 8 and 13. . SECTION 7: Handling and storage . 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 ext, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Stora locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustibl	6.1.2. For emergency responders	
6.2 Environmental precautions Try to stop release if safe to do so. 6.3 Methods and material for containment 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 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-wethilated area. Hygiene measures : Do not eat, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end us	Protective equipment :	
Try to stop release if safe to do so. 6.3. Methods and material for containment and cleaning up For containment i Try to stop release if safe to do so. Methods for cleaning up i 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 7.1. Precautions for safe handling Additional hazards when processed i Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Precautions for safe handling Conditions for safe storage, including any incompatibilities Technical measures Storage conditions Storage conditions Storage conditions Storage conditions Storage conditions Conserved the not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products Conserved the not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible materials Conserved the not in use. Conduction gas. Storage controls/personal protection	Emergency procedures :	Evacuate and limit access. Ventilate area.
6.3. Methods and material for containment 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 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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection <td>6.2. Environmental precautions</td> <td></td>	6.2. Environmental precautions	
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 7.1. Precautions for safe handling 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, including any incompatibilities Ecomply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Text part and the materials. Combustible materials. Test gas/Calibration gas. Store locket top. Store locked use. Store locket top. Store locked use. Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Pr	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 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 ead, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) : Flammable materials. Combustible materials. Test gas/Calibration gas. : Store controls/personal protection	6.3. Methods and material for containment	and cleaning up
6.4. Reference to other sections See also Sections 8 and 13. SECTION 7: Handling and storage 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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	For containment :	Try to stop release if safe to do so.
See also Sections 8 and 13. SECTION 7: Handling and storage 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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Methods for cleaning up :	Dispose of this material and its container in accordance with local regulations.
SECTION 7: Handling and storage 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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	6.4. Reference to other sections	
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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	See also Sections 8 and 13.	
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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	SECTION 7: Handling and storage	
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, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	7.1. Precautions for safe handling	
in a well-ventilated area. Hygiene measures : Do not eat, drink or smoke when using this product. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Additional hazards when processed :	
7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Precautions for safe handling :	
Technical measures : Comply with applicable regulations. Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. : SECTION 8: Exposure controls/personal protection	Hygiene measures :	Do not eat, drink or smoke when using this product.
Storage conditions : Store locked up. Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. : SECTION 8: Exposure controls/personal protection	7.2. Conditions for safe storage, including	any incompatibilities
closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. Incompatible products : None known. Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Technical measures :	Comply with applicable regulations.
Incompatible materials : Flammable materials. Combustible materials. 7.3. Specific end use(s) Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Storage conditions :	
Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Incompatible products :	None known.
Test gas/Calibration gas. SECTION 8: Exposure controls/personal protection	Incompatible materials :	Flammable materials. Combustible materials.
SECTION 8: Exposure controls/personal protection	7.3. Specific end use(s)	
	Test gas/Calibration gas.	
	SECTION 8: Exposure controls/persor	nal protection
8.1. Control parameters	8.1. Control parameters	

.1. Control parameters	
Nitrogen Dioxide (5.00% - 11.49%) in Air	
ACGIH	Not applicable
OSHA	Not applicable

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Nitrogen dioxide (10102-44-0)			
ACGIH	ACGIH TWA (ppm)	0.2 ppm	
OSHA	OSHA PEL (Ceiling) (mg/m ³)	9 mg/m³	
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm	
Compressed air (132259-	10-0)		
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	 Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Alarm detectors should be used when toxic 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. In addition wear chemically resistant protective gloves when making or breaking process connections.
Eye protection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection. Wear goggles and faceshield when transfilling or breaking transfer connections.
Skin and body protection	: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.
Respiratory protection	Wear a respirator when performing non-routine tasks not limited to line breaking or sampling. Wear a respirator during routine operations if determined to be necessary during a process- specific review. Consult respirator suppliers' product information or their representatives for the selection of the appropriate respirator.
Thermal hazard protection	: None necessary.
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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Gas
Appearance	: Reddish brown.
Molecular mass	: Not applicable for gas-mixtures.
Color	: Reddish brown
Odor	: Pungent.
Odor threshold	: No data available
рН	: Not applicable for gas-mixtures.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gas-mixtures.
Melting point	: Not applicable for gas-mixtures.
Freezing point	: No data available
Boiling point	: Not applicable for gas-mixtures.
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: See Section 2.1 and 2.2
Vapor pressure	: Not applicable.
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative gas density	: Heavier than air.
Solubility	 Water: Solubility in water of component(s) of the mixture : •: •:
Log Pow	: Not applicable for gas-mixtures.
Log Kow	: Not applicable for gas-mixtures.
0.1/00/00.15	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not flammable.
Oxidizing properties	: Not combustible but enhances combustion of other substances. May intensify fire. Oxidizer.
Explosive limits	: Not applicable - not flammable
9.2. Other information	
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
None ki	nown.
10.2.	Chemical stability
Stable u	under normal conditions.
10.3.	Possibility of hazardous reactions
None ki	nown.
10.4.	Conditions to avoid
None u	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Flamma	able materials. combustible materials.
10.6.	Hazardous decomposition products
Under r	normal conditions of storage and use bazardous decomposition products should not be produced

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Inhalation:gas: Toxic if inhaled.
Nitrogen Dioxide (5.00% - 11.49%) in Air	
ATE US (gases)	870.322 ppmV/4h
Nitrogen dioxide (10102-44-0)	
LC50 inhalation rat (ppm)	57.5 ppm/4h
ATE US (gases)	10.000 ppmV/4h
Compressed air (132259-10-0)	
LC50 inhalation rat (ppm)	820000 ppm/4h
ATE US (gases)	820000.000 ppmV/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: Not applicable for gas-mixtures.
Serious eye damage/irritation	: Causes serious eye damage.
	pH: Not applicable for gas-mixtures.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause damage to organs (lung) (Inhalation).
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Toxic if inhaled. May cause damage to organs (lung) through single exposure (inhalation). If you feel unwell, seek medical advice.
Symptoms/injuries after skin contact	: CAUSES (SEVERE) SKIN BURNS.
Symptoms/injuries after eye contact	: Causes serious eye damage.
01/29/2015	EN (English US) 5/9

Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
ymptoms/injuries upon intravenous dministration	: Not known.
hronic symptoms	: None known.
SECTION 12: Ecological informat	ion
2.1. Toxicity	
Ecology - general	: Classification criteria are not met.
2.2. Persistence and degradability	
Nitrogen Dioxide (5.00% - 11.49%) in Air	•
Persistence and degradability	No data available.
Nitrogen dioxide (10102-44-0)	
Persistence and degradability	Not applicable for inorganic gases.
Compressed air (132259-10-0)	
Persistence and degradability	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Nitrogen Dioxide (5.00% - 11.49%) in Air	
Log Pow	Not applicable for gas-mixtures.
Log Kow	Not applicable for gas-mixtures.
Bioaccumulative potential	No data available.
Nitrogen dioxide (10102-44-0)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No data available.
Compressed air (132259-10-0)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
I2.4. Mobility in soil	
Nitrogen Dioxide (5.00% - 11.49%) in Air	
Mobility in soil	No data available.
Nitrogen dioxide (10102-44-0)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Compressed air (132259-10-0)	
Ecology - soil	No ecological damage caused by this product.
12.5. Other adverse effects	
Effect on ozone layer	: None.
Effect on the global warming	: No known ecological damage caused by this product.
Lifect on the global warming	. No known ecological damage caused by this product.
SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Naste 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.
Naste 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 informati	on
In accordance with DOT	

Transport document description	: UN3303 Compressed gas, toxic, oxidizing, n.o.s. (Nitrogen Dioxide, Compressed Air) Inhalation
UN-No.(DOT)	Hazard Zone C : UN3303

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proper Shipping Name (DOT)	: Compressed gas, toxic, oxidizing, n.o.s.
Hazard labels (DOT)	Inhalation Hazard Zone C : 2.3 - Poison gas
	5.1 - Oxidizer
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 3 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone C (see 173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter. B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.
DOT Packaging Exceptions (49 CFR 173.xxx)	: None
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
(49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted Ensure valve protection device (where provided) is correctly fitted.
ADR	
Transport document description	: UN 3306, 2.3 (8+5.1), (C/D)
Class (ADR)	: 2 - Gases
Hazard identification number (Kemler No.)	: 265
Classification code (ADR)	: 1TOC
Hazard labels (ADR)	: 2.3 - Toxic gases 8 - Corrosive substances 5.1 - Oxidizer
Orange plates	2 51 2 265 3 3 0 6
Tunnol rostriction code (ADD)	
Tunnel restriction code (ADR) LQ	: C/D : 0
Excepted quantities (ADR)	: E0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport by sea	
UN-No. (IMDG)	: 3303
Proper Shipping Name (IMDG)	: COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.
Class (IMDG)	: 2.3 - Toxic gases
Air transport	
UN-No.(IATA)	: 3303
Proper Shipping Name (IATA)	: COMPRESSED GAS, TOXIC, OXIDIZING, N.O.S.
Class (IATA)	: 2

 SECTION 15: Regulatory information

 15.1. US Federal regulations

 Nitrogen dioxide (10102-44-0)

 Listed on the United States TSCA (Toxic Substances Control Act) inventory

 Listed on the United States SARA Section 302

 SARA Section 302 Threshold Planning
 100

 Quantity (TPQ)
 100

15.2. International regulations

CANADA

Nitrogen dioxide (10102-44-0)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material	
Compressed air (132259-10-0)		
WHMIS Classification	Class A - Compressed Gas	

EU-Regulations

Nitrogen dioxide (10102-44-0)

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

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

NOT Classified

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

15.2.2. National regulations

Nitrogen dioxide (10102-44-0)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on the Canadian IDL (Ingredient Disclosure List) Compressed air (132259-10-0) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

15.3. US State regulations

Nitrogen dioxide (10102-44-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	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.

Full text of H-phrases:

Acute Tox. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Liquefied gas	Gases under pressure Liquefied gas
Ox. Gas 1	Oxidizing gases Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H331	Toxic if inhaled
H371	May cause damage to organs

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.