

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/03/2015 Version: 2.0

	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Methyl Iodide (0.0001% - 0.0999%) in Air
Product code	: SG-2002-00753
	ostance or mixture and uses advised against
Use of the substance/mixture	: Test gas/Calibration gas.
1.3. Details of the supplier of the safety	y data sheet
Air Liquide 2700 Post Oak Boulevard	
Houston, TX 77056 - USA	
T 1-800-819-1704	
www.us.airliquide.com 1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300
	. ONEMITIES. 1 000 424 0000
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification (GHS-US)	
Compressed gas	H280
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated CGA-HG24 - Supports combustion.
Precautionary statements (GHS-US)	 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 eye protection, face protection, protective gloves, protective clothing 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
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
Not applicable	
SECTION 3: Composition/informati	on on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	Classification (GHS-US)
Compressed air	(CAS No) 132259-10-0	99.9001 - 99.9999	Compressed gas, H280
Methyl Iodide	(CAS No) 74-88-4	0.0001 - 0.0999	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Dermal), H310 Skin Corr. 1A, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Carc. 2, H351 STOT SE 3, H335

Full text of H-phrases: see section 16

Full text of H-phrases: see section 16	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Adverse effects not expected from this product.
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 effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: Adverse effects not expected from this product.
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	: Adverse effects not expected from this product.
4.3. Indication of any immediate medica	al attention and special treatment needed
If you feel unwell, seek medical advice. If breath	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Jnsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the su	
Fire hazard	: The product is not flammable.
Explosion hazard	 Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: None known.
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 clothing 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 mea	sures
	quipment and emergency procedures
General measures	: Ensure adequate ventilation.
	: Ensure adequate ventilation.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Protective equipment	: Wear protective equipment consistent with the site emergency plan.
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6.1.1. For non-emergency personnel Protective equipment Emergency procedures	 Wear protective equipment consistent with the site emergency plan. 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
6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders	 Wear protective equipment consistent with the site emergency plan. 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
Protective equipment Emergency procedures	 Wear protective equipment consistent with the site emergency plan. 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. Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

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6.2. Environmental	precautions
Try to stop release if safe	to do so.
6.3. Methods and n	naterial 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 o	ther sections
See also Sections 8 and 7	3.
SECTION 7: Handli	ng and storage
7.1. Precautions fo	r safe handling
Additional hazards when I	processed : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Close valve after each use and when empty.
Precautions for safe hand	ing : Do not handle until all safety precautions have been read and understood. Use only outdoors 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	: 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.
ncompatible products	: None known.
ncompatible materials	: Flammable materials.
7.3. Specific end us	se(s)
See Section 1.2.	
SECTION 8: Expos	ure controls/personal protection
8.1. Control param	eters
Methyl Iodide (0.0001%	- 0.0999%) in Air
ACGIH	Not applicable
OSHA	Not applicable
Compressed air (1322	9-10-0)
ACGIH	Not applicable
OSHA	Not applicable
Methyl lodide (74-88-4)	
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. Consider work permit system e.g. for maintenance activities.
Hand protection	: Wear working gloves when handling gas containers. 29 CFR 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. See Sections 5 & 6.
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.

SECTION 9: Physical and chemical properties		
9.1. Information on basi	9.1. Information on basic physical and chemical properties	
Physical state	: Gas	
Appearance	: Clear, colorless gas.	

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Molecular mass	: Not applicable for gas-mixtures.
Color	: Colorless
Odor	: Pungent.;ether-like
Odor threshold	: No Data Available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No Data Available
Freezing point	: No data available
Boiling point	: No Data Available
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	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative gas density	: Similar to air
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable - not flammable.
Oxidizing properties	: Supports combustion.
Explosive limits	: Not applicable - not flammable
9.2. Other information	
Gas group	: Compressed gas
SECTION 10: Stability and reactivit	у
10.1. Reactivity	

None known.

10.2.Chemical stabilityStable under normal conditions.

10.3. Possibility of hazardous reactions

Can form explosive mixtures with flammable materials.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Flammable materials.

10.6. Hazardous decomposition products

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

SECTION	N 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

Compressed air (132259-10-0)		
LC50 inhalation rat (ppm)	820000 ppm/4h	
ATE US (gases)	820000.000 ppmV/4h	
Methyl Iodide (74-88-4)		
LC50 inhalation rat (ppm)	224 ppm/4h	
ATE US (oral)	100.000 mg/kg body weight	
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Methyl Iodide (74-88-4)	
ATE US (dermal)	50.000 mg/kg body weight
ATE US (gases)	224.000 ppmV/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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	: Adverse effects not expected from this product.
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	: Adverse effects not expected from this product.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Compressed air (132259-10-0)	
Persistence and degradability	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Compressed air (132259-10-0)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
12.4 Mobility in soil	

12.4. Mobility in soil

Effect on the global warming

Compressed air (132259-10-0)	
Ecology - soil	No ecological damage caused by this product.
12.5. Other adverse effects	
Effect on ozone layer	: No known effects from this product.

: No known ecological damage caused by this product.

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.	
SECTION 14: Transport information		
In accordance with DOT		
Transport document description	: UN1956 Compressed gas, n.o.s. (Methyl Iodide, Air), 2.2	

Methyl lodide (0.0001% - 0.0999%) in Air Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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UN-No.(DOT)	: 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
Hazard labels (DOT)	: 2.2 - Non-flammable gas
	2
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT 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.
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.
ADR	
Transport document description	: UN 1956, 2.2, (E)
Class (ADR)	: 2 - Gases
Hazard identification number (Kemler No.)	: 20
Classification code (ADR)	: 1A
Hazard labels (ADR)	2.2 - Non-flammable compressed gas
Orange plates	20 1956
Tunnel restriction code (ADR)	: E
LQ	: 120ml
Excepted quantities (ADR)	: E1
Transport by sec	
Transport by sea UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	2 - Gases
Air transport	
UN-No.(IATA)	: 1956
Proper Shipping Name (IATA) Class (IATA)	: COMPRESSED GAS, N.O.S. : 2
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SECTION 15: Regulatory information	
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
Compressed air (132259-10-0)	
WHMIS Classification	Class A - Compressed Gas
EU-Regulations No additional information available Classification according to Regulation (EC) No. Not classified	. 1272/2008 [CLP]
Classification according to Directive 67/548/EE	C [DSD] or 1999/45/EC [DPD]
15.2.2. National regulations	
Compressed air (132259-10-0)	
Listed on IECSC (Inventory of Existing Chemical Listed on NZIoC (New Zealand Inventory of Cher	

15.3. US State 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. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Carc. 2	Carcinogenicity Category 2
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer

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.