Safety Data Sheet
2076

Section 1: Product and Company Identification

Absolute Accuracy
4591 S Wayside Dr
Houston, TX 77087
(832) 571-2387

Product Code: 2076
Synonyms: METHANOL
Recommended Use:
Usage Restrictions:

Section 2: Hazards Identification

Danger

Hazard Classification:
Acute Dermal Toxicity (Category 3)
Acute Oral Toxicity (Category 3)
Gases Under Pressure
Specific target organ toxicity (Single Exposure) (Category 1)

Hazard Statements:
Causes damage to organs
Contains gas under pressure; may explode if heated
Toxic if swallowed
Toxic in contact with skin

Precautionary Statements
Prevention:
Do not breathe dust/fume/gas/mist/ vapors/spray..
Wash thoroughly after handling.
Wear protective gloves and protective clothing.
Do not eat, drink or smoke when using this product.

Response:
If swallowed: Immediately call a poison center or doctor.
Take off immediately all contaminated clothing and wash it before reuse.
Wash with plenty of water
If exposed: Get medical advice/attention.

Storage:

Protect from sunlight.
Store in well-ventilated place.
Store locked up.

Disposal:
Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Methyl Alcohol	67-56-1	3 %
Argon	7440-37-1	BALANCE

	Chemical Substance	Chemical Family	Trade Names
Methyl Alcohol	METHYL ALCOHOL	Alcohols	METHANOL; WOOD ALCOHOL; METHYL HYDROXIDE; CARBINOL; MONOHYDROXYMETHANE; WOOD SPIRIT; WOOD NAPHTHA; METHYLOL; COLONIAL SPIRIT; COLUMBIAN SPIRIT; PYROXYLIC SPIRIT; STCC 4909230; UN 1230; RCRA U154; CH4O
Argon	ARGON, COMPRESSED	Inorganic gases	ARGON; UN 1006; AR

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Methyl Alcohol	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Aspiration hazard. DO NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get immediate medical attention. Give artificial respiration if not breathing.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	Antidote: ethanol, oral; calcium gluconate/glucose, intravenous. 4-methylpyrazole, oral, intravenous.
Argon	Not applicable route of exposure	Flush eyes with plenty of water.	Not applicable route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Methyl Alcohol	Regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide and toxic and irritating fumes	▪ Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. ▪ Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
Argon	Non-flammable gas	Not applicable	▪ N/A ▪ N/A

Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment
Methyl Alcohol	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate area.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Argon	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	None known.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information
Methyl Alcohol	Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal.	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
Argon	Leaks may be detected by a soapy-water solution.	

Section 7: Handling and Storage

	Handling	Storage
Methyl Alcohol	Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier.
Argon	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.	Avoid using in confined spaces.

Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Methyl Alcohol	TLV-TWA: 200 ppm skin (ACIGH)
Argon	ARGON, COMPRESSED: ARGON: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Methyl Alcohol	Wear safety goggles. Provide eye wash fountain and quick drench shower.	Wear chemical resistant clothing.	Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
Argon	Eye protection not required, but recommended.	Protective clothing is not required.	N/A

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Methyl Alcohol	Liquid	Clear	Colorless	N/A	Liquid	Mild alcohol odor	N/A
Argon	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Methyl Alcohol	52 F (11 C) (CC); also reported as 54 F (12.2 C) (CC)	Not available	Not available	725 F (385 C)	36%	5.5%
Argon	Not flammable			Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
Methyl Alcohol	148.5 F	-143.9 F	96 mmHg at 20C	1.1 (air = 1) (calculated)	(Air = 1) at 70F (21.1C) and 1 atm: 1.11	Soluble in all proportions	Not available	4.2-5960 ppm (geometric mean: 160 ppm) (detection); 53-8940 ppm (geometric mean: 690 ppm) (recognition)	2.1	Dynamic - 0.59 mPa.s (0.59 centipoises) at 20 deg C
Argon	-303 F (-186 C)	-308 F (-189 C)	500 mmHg @ -190 C	1.38 (Air=1)	Not applicable	3.36% @ 20 C	Not applicable	Not available	Not applicable	0.0225 cP @ 25 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Methyl Alcohol	32.04	C-H4-O	Not available	Not available	100%	Not available	Soluble: Soluble in all proportions in ethanol, other alcohols, benzene, chloroform, diethyl ether, other ethers, esters, ketones, and most other organic solvents
Argon	39.948	AR	1.784 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Organic solvents

Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Methyl Alcohol	Normally stable.	Normally stable.	Oxidizing agents, peroxides, metals, alkali metals, acetyl bromide
Argon	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	No data available.

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Methyl Alcohol	Decomposes on heating to produce carbon monoxide and formaldehyde.	Not known.
Argon	No data available.	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Methyl Alcohol	LD50 (oral, rat): 5628 mg/kg	LD50 (dermal, rabbit): 15800 mg/kg (cited as 20 mL/kg)	Mild central nervous system depressant, nausea, headache, vomiting, dizziness, sensitivity to light, blurred, double and/or snowy vision, and blindness
Argon	Not established	Not established	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma

	Eye Irritation	Skin Irritation	Sensitization
Methyl Alcohol	Irritation	Mild central nervous system depressant, nausea, headache, vomiting, dizziness, sensitivity to light, blurred, double and/or snowy vision, and blindness	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Acute toxicity, Category 3, dermal; H311: Toxic in contact with skin. Acute toxicity, Category 3, oral; H301: Toxic if swallowed. Specific Target Organ Toxicity (single exposure), Category 1; H370: Causes damage to organs.--Affected organs: eyes
Argon	No information on significant adverse effects	No information on significant adverse effects	

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Methyl Alcohol	May be carcinogenic.	Insufficient information	Not available	No data
Argon	Not established	Not established	Not established	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Methyl Alcohol	Fish toxicity: Acute EC50 22200 to 23400 mg/L Fresh water Daphnia - Water flea - Daphnia obtusa - Neonate - <24 hours 48 hours Invertibrate toxicity: Acute LC50 2500000 ug/L Marine water Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult 48 hours Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available
Argon	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Methyl Alcohol	Use a licensed waste disposal contractor. Dispose of according to all regulations.
Argon	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name	Compressed gas, n.o.s. (Argon, Methyl Alcohol)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Methyl Alcohol	METHANOL	UN1230	3, 6.1	II	FLAMMABLE LIQUID, POISON	1 kg or L	N/A	N/A
Argon	Argon, compressed	UN1006	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Methyl Alcohol	METHANOL	UN1230	3	II
Argon	Argon, compressed	UN1006	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	SARA 355.30	SARA 355.40
Methyl Alcohol	Not regulated.	Not regulated.	Not regulated.
Argon	Not regulated.	Not regulated.	Not regulated.

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Methyl Alcohol	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Argon	Yes	No	No	No	Yes

SARA 372.65

Methyl Alcohol	Not regulated.
Argon	Not regulated.

OSHA Process Safety

Methyl Alcohol	Not regulated.
Argon	Not regulated.

State Regulations

	CA Proposition 65
Methyl Alcohol	California Proposition 65 - This product contains, or may contain, a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm.

Argon	Not regulated.

Canadian Regulations

	WHMIS Classification
Methyl Alcohol	B2, D1B, D2A, D2B
Argon	A

National Inventory Status

	US Inventory (TSCA)	**TSCA 12b Export Notification**	**Canada Inventory (DSL/NDSL)**
Methyl Alcohol	Listed on inventory.	N/A	N/A
Argon	Listed on inventory.	Not listed.	Listed on inventory.

Section 16: Other Information

	NFPA Rating
Methyl Alcohol	Not available
Argon	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard