

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name	• Acetone (0.001-0.075%), Ethanol (0.0001-0.1%), Trimethylamine (0.0005-0.1%) in Methanol (Balance)
Synonyms	• ACETONE, ETHANOL AND TRIMETHYLAMINE IN METHANOL
Product Code	• M-A402753/E-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	• Please provide product use
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1.3 Details of the supplier of the safety data sheet

Manufacturer	• Air Liquide 2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com
Telephone (Technical)	• 713-896-2896
Telephone (Technical)	• 800-819-1704

1.4 Emergency telephone number

Manufacturer	• 800-424-9300 - CHEMTREC
Manufacturer	• +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	• Flammable Liquids 2 - H225 Acute Toxicity Oral 3 - H301 Acute Toxicity Dermal 3 - H311 Acute Toxicity Inhalation 3 - H331 Specific Target Organ Toxicity Single Exposure 1 - H370
DSD/DPD	• Highly Flammable (F) Toxic (T) R11, R23/24/25, R39/23/24/25

2.2 Label Elements

CLP	DANGER
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- Hazard statements**
- H225 - Highly flammable liquid and vapour
 - H301 - Toxic if swallowed
 - H311 - Toxic in contact with skin
 - H331 - Toxic if inhaled
 - H370 - Causes damage to organs.

Precautionary statements

- Prevention**
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 - P233 - Keep container tightly closed.
 - P240 - Ground and/or bond container and receiving equipment.
 - P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
 - P242 - Use only non-sparking tools.
 - P243 - Take precautionary measures against static discharge.
 - P260 - Do not breathe mist/vapours/spray.
 - P264 - Wash thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - P271 - Use only outdoors or in a well-ventilated area.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- P370+P378 - In case of fire: Use appropriate media for extinction.
 - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P311 - Call a POISON CENTER or doctor/physician.
 - P321 - Specific treatment, see supplemental first aid information.
 - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - P322 - Specific measures, see supplemental first aid information.
 - P352 - Wash with plenty of soap and water.
 - P361 - Remove/Take off immediately all contaminated clothing.
 - P363 - Wash contaminated clothing before reuse.
 - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P330 - Rinse mouth.
 - P307+P311 - IF exposed: Call POISON CENTER or doctor/physician.

- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 - P235 - Keep cool.
 - P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R11 - Highly flammable.
 - R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
 - R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

- Safety phrases**
- S9 - Keep container in a well ventilated place
 - S16 - Keep away from sources of ignition - No Smoking.
 - S27 - Take off immediately all contaminated clothing.
 - S36 - Wear suitable protective clothing.
 - S37 - Wear suitable gloves.
 - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2 - H225
Skin Irritation 2 - H315
Eye Irritation 2A - H319
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Reproductive Toxicity 2 - H361
Specific Target Organ Toxicity Single Exposure 1 - H370
Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Highly flammable liquid and vapour - H225
 - Causes skin irritation - H315
 - Causes serious eye irritation - H319
 - May cause drowsiness or dizziness - H336
 - Suspected of damaging fertility or the unborn child. - H361
 - Causes damage to organs - eyes - H370
 - Causes damage to organs - eyes through prolonged or repeated exposure - H372

Precautionary statements

- Prevention**
- Obtain special instructions before use. - P201
 - Do not handle until all safety precautions have been read and understood. - P202
 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
 - Keep container tightly closed. - P233
 - Ground and/or bond container and receiving equipment. - P240
 - Use explosion-proof electrical/ventilating/lighting/equipment. - P241
 - Use only non-sparking tools. - P242
 - Take precautionary measures against static discharge. - P243
 - Do not breathe mist/vapours/spray. - P260
 - Wash thoroughly after handling. - P264
 - Do not eat, drink or smoke when using this product. - P270
 - Use only outdoors or in a well-ventilated area. - P271
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- In case of fire: Use appropriate media for extinction. - P370+P378
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
 - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
 - Specific treatment, see supplemental first aid information. - P321
 - Wash with plenty of soap and water. - P352
 - Take off contaminated clothing and wash before reuse. - P362
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313
 - IF exposed: Call POISON CENTER or doctor/physician. - P307+P311
 - Get medical advice/attention if you feel unwell. - P314
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed. - P403+P233
 - Keep cool. - P235

Store locked up. - P405

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Flammable Liquids - B2
- Toxic - D1B
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Flammable Liquids - B2
- Toxic - D1B
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

NFPA



Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
	CAS:75-50-3			

Methanamine, N,N-dimethyl-	EC Number: 200-875-0 EU Index: 612-001-00-9 EINECS: 200-875-0	5ppm TO 1000ppm	Ingestion/Oral-Rat LD50 • 500 mg/kg	EU DSD/DPD: Annex I - F+; R12 Xn; R20 Xi; R37/38-41 EU CLP: Annex VI - Flam. Liq. 1; H224 Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1B H314 OSHA HCS 2012: Flam. Liq. 1; Acute Tox. 3 (orl); Skin Corr. 1; Eye Dam. 1; STOT SE 3: Resp. Irrit.
Ethanol	CAS: 64-17-5 EC Number: 200-578-6 EU Index: 603-002-00-5 EINECS: 200-578-6	1ppm TO 999ppm	Ingestion/Oral-Rat LD50 • 7 g/kg Inhalation-Rat LC50 • 124700 mg/m ³ 4 Hour(s)	EU DSD/DPD: Annex I - F; R11 EU CLP: Annex VI - Flam. Liq. 2, H225 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Muta. 1B; Repr. 1A
Acetone	CAS: 67-64-1 EC Number: 200-662-2 EU Index: 606-001-00-8 EINECS: 200-662-2	1ppm TO 750ppm	Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m ³	EU DSD/DPD: Annex I - F; R11 Xi; R36 R66 R67 EU CLP: Annex VI - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc.
Methanol	CAS: 67-56-1 EC Number: 200-659-6 EU Index: 603-001-00-X EINECS: 200-659-6	Balance	Inhalation-Rat LC50 • 64000 ppm 4 Hour(s) Skin-Rabbit LD50 • 15800 mg/kg Ingestion/Oral-Rat LD50 • 5600 mg/kg	EU DSD/DPD: Annex I - F; R11 T; R23/24/25-39/23/24/25 EU CLP: Annex VI - Flam. Liq. 2, H225; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; STOT SE 1, H370 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit. 2; STOT SE 1 (Eyes); STOT SE 3: Narc.; STOT RE 1 (Eyes); Repr. 2

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. Get medical attention immediately.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention immediately.

Ingestion

- Drink 4 glasses of milk, water, or 4% sodium bicarbonate. Induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • LARGE FIRES: Water spray, fog or alcohol-resistant foam.
SMALL FIRES: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media • No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Many liquids are lighter than water.
Runoff to sewer may create fire or explosion hazard.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products • Toxic carbon monoxide may be given off during combustion.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Stop leak if you can do it without risk.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
A vapor suppressing foam may be used to reduce vapors.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Use only non-sparking tools. Use explosion-proof - electrical, ventilating and/or lighting equipment. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapors, spray. Do not get in eyes, on skin, or on clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool, dry, well-ventilated place. Keep away from heat, sparks, and flame.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	Europe
Methanol (67-56-1)	TWAs	200 ppm TWA	200 ppm TWA	200 ppm TWAEV; 262 mg/m3 TWAEV	25 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA
	STELs	250 ppm STEL	250 ppm STEL	250 ppm STEV; 328 mg/m3 STEV	50 mg/m3 STEL	Not established
Acetone (67-64-1)	STELs	750 ppm STEL	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV	450 mg/m3 STEL	Not established
	TWAs	500 ppm TWA	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV	300 mg/m3 TWA	Not established
Ethanol (64-17-5)	STELs	1000 ppm STEL	1000 ppm STEL	Not established	Not established	Not established
	TWAs	Not established	Not established	1000 ppm TWAEV; 1880 mg/m3 TWAEV	Not established	Not established
Methanamine, N,N-dimethyl- (75-50-3)	STELs	15 ppm STEL	15 ppm STEL	15 ppm STEV; 36 mg/m3 STEV	Not established	Not established
	TWAs	5 ppm TWA	5 ppm TWA	5 ppm TWAEV; 12 mg/m3 TWAEV	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	France	Germany DFG	Germany TRGS	Ireland	Israel
Methanol (67-56-1)	STELs	1000 ppm STEL [VLCT]; 1300 mg/m3 STEL [VLCT]	Not established	Not established	Not established	250 ppm STEL
	TWAs	200 ppm TWA [VME]; 260 mg/m3 TWA [VME]	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 270 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA

				be excluded when AGW and BGW values are observed, exposure factor 4)		
	Ceilings	Not established	800 ppm Peak; 1080 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	Not established	200 ppm TWA MAK; 270 mg/m ³ TWA MAK	Not established	Not established	Not established
Acetone (67-64-1)	STELs	1000 ppm STEL [VLCT] (restrictive limit); 2420 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	Not established	750 ppm STEL
	TWAs	500 ppm TWA [VME] (restrictive limit); 1210 mg/m ³ TWA [VME] (restrictive limit)	Not established	500 ppm TWA AGW (exposure factor 2); 1200 mg/m ³ TWA AGW (exposure factor 2)	500 ppm TWA; 1210 mg/m ³ TWA	500 ppm TWA
	Ceilings	Not established	1000 ppm Peak; 2400 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	Not established	500 ppm TWA MAK; 1200 mg/m ³ TWA MAK	Not established	Not established	Not established
Ethanol (64-17-5)	STELs	5000 ppm STEL [VLCT]; 9500 mg/m ³ STEL [VLCT]	Not established	Not established	1000 ppm STEL	1000 ppm STEL
	TWAs	1000 ppm TWA [VME]; 1900 mg/m ³ TWA [VME]	Not established	500 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 960 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	Not established	Not established
	Ceilings	Not established	1000 ppm Peak; 1920 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	Not established	500 ppm TWA MAK; 960 mg/m ³ TWA MAK	Not established	Not established	Not established
Methanamine, N,N-dimethyl- (75-50-3)	STELs	10 ppm STEL [VLCT]; 25 mg/m ³ STEL [VLCT]	Not established	Not established	Not established	15 ppm STEL
	TWAs	Not established	Not established	Not established	5 ppm TWA	5 ppm TWA
	Ceilings	Not established	4 ppm Peak; 9.8 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	Not established	2 ppm TWA MAK; 4.9 mg/m ³ TWA MAK	Not established	Not established	Not established

Exposure Limits/Guidelines (Con't.)						
	Result	Italy	NIOSH	OSHA	OSHA Vacated	Portugal
Methanol (67-56-1)	STELs	Not established	250 ppm STEL; 325 mg/m3 STEL	Not established	250 ppm STEL; 325 mg/m3 STEL	250 ppm STEL [VLE-CD]
	TWAs	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA [VLE-MP]
Acetone (67-64-1)	STELs	Not established	Not established	Not established	2400 mg/m3 STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors); 1000 ppm STEL	750 ppm STEL [VLE-CD]
	TWAs	500 ppm TWA; 1210 mg/m3 TWA	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA	750 ppm TWA; 1800 mg/m3 TWA	500 ppm TWA [VLE-MP]
Ethanol (64-17-5)	TWAs	Not established	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA [VLE-MP]
Methanamine, N,N-dimethyl- (75-50-3)	STELs	Not established	15 ppm STEL; 36 mg/m3 STEL	Not established	15 ppm STEL; 36 mg/m3 STEL	15 ppm STEL [VLE-CD]
	TWAs	Not established	10 ppm TWA; 24 mg/m3 TWA	Not established	10 ppm TWA; 24 mg/m3 TWA	5 ppm TWA [VLE-MP]

Exposure Limits/Guidelines (Con't.)			
	Result	Spain	Sweden
Methanol (67-56-1)	TWAs	200 ppm TWA [VLA-ED] (indicative limit value); 266 mg/m3 TWA [VLA-ED] (indicative limit value)	200 ppm LLV; 250 mg/m3 LLV
	Biological Limit Values (BLV)	15 mg/L urine end of shift Methanol (2)	Not established
	STELs	Not established	250 ppm STV; 350 mg/m3 STV
Acetone (67-64-1)	TWAs	500 ppm TWA [VLA-ED] (indicative limit value); 1210 mg/m3 TWA [VLA-ED] (indicative limit value)	250 ppm LLV; 600 mg/m3 LLV
	Biological Limit Values (BLV)	50 mg/L urine end of shift Acetone (2)	Not established
	STELs	Not established	500 ppm STV; 1200 mg/m3 STV
	STELs	1000 ppm STEL [VLA-EC]; 1910 mg/m3 STEL [VLA-EC]	1000 ppm STV; 1900 mg/m3 STV
		1000 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or	

Ethanol (64-17-5)	TWAs	use of this substance as a phytosanitary or biocide compound); 1910 mg/m ³ TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)	500 ppm LLV; 1000 mg/m ³ LLV
Methanamine, N,N-dimethyl- (75-50-3)	STELs	15 ppm STEL [VLA-EC]; 37 mg/m ³ STEL [VLA-EC]	Not established
	TWAs	5 ppm TWA [VLA-ED] (reaction with Nitrosating agents can lead to formation of carcinogenic N-Nitrosamines); 12 mg/m ³ TWA [VLA-ED] (reaction with Nitrosating agents can lead to formation of carcinogenic N-Nitrosamines)	Not established

Exposure Control Notations

Portugal

- Acetone (67-64-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Ethanol (64-17-5): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Methanol (67-56-1): **Skin:** (skin - potential for cutaneous exposure)

Italy

- Methanol (67-56-1): **Skin:** (skin - potential for cutaneous absorption)

Ireland

- Methanol (67-56-1): **Skin:** (Potential for cutaneous absorption)

Spain

- Methanol (67-56-1): **Skin:** (skin - potential for cutaneous exposure)

Sweden

- Methanol (67-56-1): **Skin:** (Skin notation)

Germany TRGS

- Methanol (67-56-1): **Skin:** (skin notation)

Germany DFG

- Methanamine, N,N-dimethyl- (75-50-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Acetone (67-64-1): **Pregnancy:** (risk to embryo/fetus probable by exposure at exposure limit level)
- Ethanol (64-17-5): **Carcinogens:** (Category 5 (low carcinogenic potency)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Methanol (67-56-1): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

Exposure Limits Supplemental

Spain

- Ethanol (64-17-5): **Under Review:** (1000 ppm VLA-EC; 1910 mg/m³ VLA-EC; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof - electrical, ventilating and/or lighting equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

LLV = Limit Level Value is the exposure limit for 8-hour work day

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Colorless liquid with an alcohol odor.
Color	Colorless	Odor	Alcohol Odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	64.5 C(148.1 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	0.79 Water=1	Water Solubility	Miscible
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	96 mmHg (torr) @ 20 C(68 F)	Vapor Density	1.1 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	12 C(53.6 F)	UEL	11.6 %
LEL	6 %	Autoignition	385 C(725 F)
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat, sparks, open flame.

10.5 Incompatible materials

- Acids, acids chlorides, acid anhydrides, oxidizers, reducing agents, alkali metals.

10.6 Hazardous decomposition products

- Toxic carbon monoxide and nitrogen oxides may be given off.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Methanol (99.7251% TO 99.9993%)	67- 56-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5600 mg/kg; Inhalation-Rat LC50 • 64000 ppm 4 Hour(s); Skin-Rabbit LD50 • 15800 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 1 g/kg; DNA damage • Ingestion/Oral-Rat • 10 µmol/kg; Reproductive: Inhalation-Mouse TLo • 5000 ppm 7 Hour(s)(6-15D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Central nervous system; Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue)</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Dermal 3; Acute Toxicity - Inhalation 3; Acute Toxicity - Oral 3 OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1; Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Toxic to Reproduction 2

Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Eye Irritation 2A

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - Toxic if inhaled. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
 - No data available

Skin

- Acute (Immediate)**
 - Toxic in contact with skin. Causes skin irritation.
- Chronic (Delayed)**
 - No data available

Eye

- Acute (Immediate)**
 - Causes serious eye irritation.
- Chronic (Delayed)**
 - No data available

Ingestion

- Acute (Immediate)**
 - Toxic if swallowed.
- Chronic (Delayed)**
 - No data available

Other

- Acute (Immediate)**
 - Causes damage to the eyes.
- Chronic (Delayed)**
 - Chronic poisoning from repeated exposure to methanol vapor were manifested by conjunctivitis, headache, giddiness, insomnia, gastric disturbances, and bilateral blindness; Autopsies from victims of lethal methanol poisonings revealed gross pathology in the visceral organs, the brain, lung, liver, kidney and the CNS, all of which involved a variety of edematous, hemorrhagic and degenerative changes.

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

TC = Toxic Concentration

LC = Lethal Concentration

LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1993	Flammable liquids, n.o.s. (Methanol, Trimethylamine)	3	II	NDA
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Methanol, Trimethylamine)	3	II	Potential Marine Pollutant
IMO/IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Methanol, Trimethylamine)	3	II	NDA
IATA/ICAO	UN1993	Flammable liquid, n.o.s. (Methanol, Trimethylamine)	3	II	NDA

14.6 Special precautions for user

- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Acetone	67-64-1	Yes	Yes	Yes
Ethanol	64-17-5	Yes	Yes	Yes
Methanamine, N,N-dimethyl-	75-50-3	Yes	Yes	Yes
Methanol	67-56-1	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Acetone	67-64-1	Yes	No	Yes	Yes	No
Ethanol	64-17-5	Yes	No	Yes	Yes	No

Methanamine, N,N-dimethyl-	75-50-3	Yes	No	Yes	Yes	No
Methanol	67-56-1	Yes	No	Yes	Yes	No
Inventory (Con't.)						
Component	CAS		TSCA			
Acetone	67-64-1		Yes			
Ethanol	64-17-5		Yes			
Methanamine, N,N-dimethyl-	75-50-3		Yes			
Methanol	67-56-1		Yes			

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Methanamine, N,N-dimethyl-	75-50-3	A, B1, E
• Acetone	67-64-1	B2, D2B
• Methanol	67-56-1	B2, D1B, D2A, D2B (including 28%)
• Ethanol	64-17-5	B2, D2B

Canada - WHMIS - Ingredient Disclosure List

• Methanamine, N,N-dimethyl-	75-50-3	1 %
• Acetone	67-64-1	1 %
• Methanol	67-56-1	1 %
• Ethanol	64-17-5	0.1 %

Environment

Canada - CEPA - Priority Substances List

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

China - Ozone Depleting Substances - Second Schedule

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed

• Ethanol	64-17-5	Not Listed
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Other

China - Annex I & II - Controlled Chemicals Lists

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

China - Dangerous Goods List

• Methanamine, N,N-dimethyl-	75-50-3	(including anhydrous or aqueous solution; with not >50% Trimethylamine, by mass)
• Acetone	67-64-1	
• Methanol	67-56-1	
• Ethanol	64-17-5	

China - Export Control List - Part I Chemicals

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Methanamine, N,N-dimethyl-	75-50-3	F+; R12 Xn; R20 Xi; R37/38-41
• Acetone	67-64-1	F; R11 Xi; R36 R66 R67
• Methanol	67-56-1	F; R11 T; R23/24/25-39/23/24/25
• Ethanol	64-17-5	F; R11

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Methanamine, N,N-dimethyl-	75-50-3	5%≤C: Xn; R:20 5%≤C: Xi; R:37/38-41 0.5%≤C<5%: Xi; R:36
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	20%≤C: T; R:23/24/25 3%≤C<20%: Xn; R:20/21/22 10%≤C: T; R:39/23/24/25 3%≤C<10%: Xn; R:68/20/21/22
• Ethanol	64-17-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Methanamine, N,N-dimethyl-	75-50-3	F+ Xn R:12-20-37/38-41 S:(2)-16-26-39
• Acetone	67-64-1	F Xi R:11-36-66-67 S:(2)-9-16-26
• Methanol	67-56-1	F T R:11-23/24/25-39/23/24/25 S:(1/2)-7-16-36/37-45
• Ethanol	64-17-5	F R:11 S:(2)-7-16

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Methanamine, N,N-dimethyl-	75-50-3	5
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• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
• Methanamine, N,N-dimethyl-	75-50-3	S:(2)-16-26-39
• Acetone	67-64-1	S:(2)-9-16-26
• Methanol	67-56-1	S:(1/2)-7-16-36/37-45
• Ethanol	64-17-5	S:(2)-7-16

Germany

Environment

Germany - TA Luft - Types and Classes

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Methanamine, N,N-dimethyl-	75-50-3	ID Number 460, hazard class 2 - hazard to waters
• Acetone	67-64-1	ID Number 6, hazard class 1 - low hazard to waters
• Methanol	67-56-1	ID Number 145, hazard class 1 - low hazard to waters
• Ethanol	64-17-5	ID Number 96, hazard class 1 - low hazard to waters (footnote 10)

Germany - Water Classification (VwVwS) - Annex 3

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Other

Germany - Specifically Regulated Chemicals in TRGS

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Portugal

Other

Portugal - Prohibited Substances

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed

• Ethanol	64-17-5	Not Listed
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United Kingdom

Environment

United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	100 kg
• Ethanol	64-17-5	Not Listed

Other

United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

United Kingdom - List of Dangerous Substances in Water

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Methanamine, N,N-dimethyl-	75-50-3	100 lb final RQ; 45.4 kg final RQ
• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ
• Methanol	67-56-1	5000 lb final RQ; 2270 kg final RQ
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	1.0 % de minimis concentration
• Ethanol	64-17-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Included in waste stream: F039
• Methanol	67-56-1	Included in waste stream: F039
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	0.28 mg/L (wastewater); 160 mg/kg (nonwastewater)

• Methanol	67-56-1	5.6 mg/L (wastewater); 0.75 mg/L TCLP (nonwastewater)
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	waste number U002 (Ignitable waste)
• Methanol	67-56-1	waste number U154 (Ignitable waste)
• Ethanol	64-17-5	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	carcinogen, initial date 4/29/11 (in alcoholic beverages)

U.S. - California - Proposition 65 - Developmental Toxicity

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	developmental toxicity, initial date 3/16/12
• Ethanol	64-17-5	developmental toxicity, initial date 10/1/87 (in alcoholic beverages)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Methanamine, N,N-dimethyl-	75-50-3	
• Acetone	67-64-1	
• Methanol	67-56-1	
• Ethanol	64-17-5	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Methanamine, N,N-dimethyl-	75-50-3	Not Listed
• Acetone	67-64-1	Not Listed
• Methanol	67-56-1	Not Listed
• Ethanol	64-17-5	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H224 - Extremely flammable liquid and vapour
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage.
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H336 - May cause drowsiness or dizziness
- EUH066 - Repeated exposure may cause skin dryness or cracking.
- R12 - Extremely flammable.
- R20 - Harmful by inhalation.
- R36 - Irritating to eyes.
- R37/38 - Irritating to respiratory system and skin.
- R41 - Risk of serious damage to eyes.
- R67 - Vapours may cause drowsiness and dizziness.
- R66 - Repeated exposure may cause skin dryness or cracking.

Last Revision Date

- 09/September/2014

Preparation Date

- 09/September/2014

Disclaimer/Statement of Liability

- To the best of Air Liquide'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 gas mixture 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.

Key to abbreviations

NDA = No Data Available

