

## Safety Data Sheet

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

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Ethanol (0.0001% - 9.9999%), Methanol (1.00% - 10.0000%), Tert-butyl Methyl Ether (0.0001%

- 9.9999%) in Gasoline

Product code : SG-2004-01421

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

Use of the substance/mixture : Test gas/Calibration gas.

#### 1.3. Details of the supplier of the safety data sheet

Air Liquide America Specialty Gases 6141 Easton Rd Plumsteadville, PA 18949 - USA T 1.800.217.2688

www.airliquide.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **Classification (GHS-US)**

Flam. Gas 1 H220 Compressed gas H280 H302 Acute Tox. 4 (Oral) Acute Tox. 4 (Inhalation:gas) H332 Muta. 1B H340 Carc. 1B H350 STOT SE 1 H370 Asp. Tox. 1 H304

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



 $\Diamond$ 

GHS04





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

H302+H332 - Harmful if swallowed or if inhaled H304 - May be fatal if swallowed and enters airways H340 - May cause genetic defects (Inhalation) Dermal H350 - May cause cancer (Dermal, Inhalation)

H370 - Causes damage to organs (CNS, Impaired Vision, Skin, Respiratory and Digestive

Systems) (Dermal, Inhalation, oral)

OSHA-H01 - May displace oxygen and cause rapid suffocation

CGA-HG04 - May form explosive mixtures with air

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

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P243 - Take precautionary measures against static discharge P240 - Ground/bond container and receiving equipment

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P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P261 - Avoid breathing fume, gas, mist, spray, vapors

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P301+P312 - If swallowed: Call a POISON CENTER if you feel unwell P308+P313 - If exposed or concerned: Get medical advice/attention

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

CGA-PG05 - Use a back flow preventive device in the piping

CGA-PG21 - Open valve slowly

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 P381 - Eliminate all ignition sources if safe to do so

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

P403 - Store in a well-ventilated place

#### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
GASOLINE	(CAS No) 8006-61-9	70.0002 - 98.9998	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Methyl alcohol	(CAS No) 67-56-1	1 - 10	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Ethyl alcohol	(CAS No) 64-17-5	0.0001 - 9.9999	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
TERT-BUTYL METHYL ETHER	(CAS No) 1634-04-4	0.0001 - 9.9999	Flam. Liq. 2, H225 Skin Irrit. 2, H315

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 : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

First-aid measures after eye contact : Adverse effects not expected from this product.

First-aid measures after ingestion : Rinse mouth. Immediately consult a doctor/medical service.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Symptoms similar to those listed under inhalation, skin contact and ingestion.

Symptoms/injuries after inhalation : Harmful if inhaled. May displace oxygen and cause rapid suffocation. Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by inhalation, ingestion and

skin contact.

Symptoms/injuries after skin contact : Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by

inhalation, ingestion and skin contact.

Symptoms/injuries after eye contact : Adverse effects not expected from this product.

Symptoms/injuries after ingestion : Harmful if swallowed. May be fatal if swallowed and enters airways. Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by inhalation, ingestion and skin

contact.

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Symptoms/injuries upon intravenous

administration

: Not known.

Chronic symptoms

 May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause cancer.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, carbon dioxide, water spray, foam, fog

Unsuitable extinguishing media : Do not use water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture. 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 measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

## 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment consistent with the site emergency plan.

Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent

premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep

upwind.

### 6.1.2. For emergency responders

Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate and limit access. Ventilate area. Remove ignition sources. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained

breather dependent to the risk of potentially explosive atmospheres. Wear self-contained breather atmospheres of unknown contaminant concentration until

proven to be safe.

#### 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. Handle empty containers with care because residual vapors are flammable. Use equipment rated for cylinder pressure. In

use, may form flammable vapor-air mixture. Close valve after each use and when empty.

Do not handle until all safety precautions have been read and understood. Use only non-

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only non sparking tools. Use only outdoors or in a well-ventilated area. Keep away from

heat/sparks/open flames/hot surfaces. – No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity

should be followed.

Ethanol (0.0001% - 9.9999%), Methanol (1.00% - 10.0000%), Tert-butyl Methyl Ether (0.0001% - 9.9999%) in Gasoline

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.

Incompatible products : None known

Incompatible materials : Oxidizing materials. Air.

#### 7.3. Specific end use(s)

Test gas/Calibration gas.

**ACGIH** 

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

		· · · · · · · · · · · · · · · · · · ·	
OSHA	Not applicable		
Ethyl alcohol (64-17-5)			
ACGIH	ACGIH STEL (ppm)	1000 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	

Methyl alcohol (67-56-1)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm

TERT-BUTYL METHYL ETHER (1634-04-4)		
ACGIH	Not applicable	
OSHA	Not applicable	

GASOLINE (8006-61-9)	
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. Oxygen detectors should be used when asphyxiating gases may be released. Consider work permit

system e.g. for maintenance activities.

Hand protection : Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection.

Eye protection : Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.

Skin and body protection : Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.

Respiratory protection : None necessary during normal and routine operations. 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 basic physical and chemical properties

Physical state : Liquid
Appearance : Amber liquid.
Molecular mass : No data available

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Color : amber : gasoline-like Odor Odor threshold : No data available Not applicable. Relative evaporation rate (butyl acetate=1) : No data available : No data available Relative evaporation rate (ether=1) 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) Flammable 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 No data available. Log Pow No data available Log Kow No data available Viscosity, kinematic Not applicable. Viscosity, dynamic Not applicable.

Explosive properties : Without adequate ventilation formation of explosive mixtures may be possible.

Oxidizing properties : None.

Explosive limits : No data available

9.2. Other information

Additional information : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None known.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Can form explosive mixture with air.

## 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

Air. Oxidizing materials.

### 10.6. Hazardous decomposition products

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 : Oral: Harmful if swallowed. Inhalation:gas: Harmful if inhaled.

Ethanol (0.0001% - 9.9999%), Methanol (1.00% - 10.0000%), Tert-butyl Methyl Ether (0.0001% - 9.9999%) in Gasoline	
ATE US (oral)	500.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h

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Chronic symptoms	: May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborchild. May cause cancer.
symptoms/injuries upon intravenous dministration	: Not known.
symptoms/injuries after ingestion	<ul> <li>Harmful if swallowed. May be fatal if swallowed and enters airways. Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by inhalation, ingestion and skin contact.</li> </ul>
symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Numerata and Galicanian and American	inhalation, ingestion and skin contact.
symptoms/injuries after skin contact	skin contact.  Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by
symptoms/injuries after inhalation	: Harmful if inhaled. May displace oxygen and cause rapid suffocation. Causes damage to organs (CNS,Vision,Skin,Respiratory System, Digestive System) by inhalation, ingestion and skin contact.
spiration hazard	: May be fatal if swallowed and enters airways.
xposure)	
Specific target organ toxicity (repeated	: Not classified
Specific target organ toxicity (single exposure)	: Causes damage to organs (Dermal, Inhalation, oral).
Reproductive toxicity	: Not classified
IARC group	1 - Carcinogenic to humans
Ethyl alcohol (64-17-5)	
Carcinogenicity	: May cause cancer (Dermal, Inhalation).
Germ cell mutagenicity	: May cause genetic defects (Inhalation).
Respiratory or skin sensitization	: Not classified
-	pH: Not applicable.
Serious eye damage/irritation	: Not classified
	pH: Not applicable.
kin corrosion/irritation	: Not classified
LC50 inhalation rat (ppm)	20932 ppm/4h
GASOLINE (8006-61-9)	
ATE US (gases)	23576.000 ppmV/4h
ATE US (dermal)	10000.000 mg/kg body weight
ATE US (oral)	2963.000 mg/kg body weight
LC50 inhalation rat (ppm)	23576 ppm/4h
LD50 dermal rabbit	10000 mg/kg
LD50 oral rat	2963 mg/kg
TERT-BUTYL METHYL ETHER (1634-04-4)	
ATE US (dust, mist)	0.500 mg/l/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (gases)	700.000 ppmV/4h
ATE US (dermal)	300.000 mg/kg body weight
ATE US (oral)	100.000 mg/kg body weight
LC50 inhalation rat (ppm)	64000 ppm/4h
LC50 inhalation rat (mg/l)	83.2 mg/l/4h
LD50 dermal rabbit	17100 mg/kg
LD50 oral rat	5628 mg/kg
Methyl alcohol (67-56-1)	
ATE US (dust, mist)	124.700 mg/l/4h
ATE US (vapors)	59.950 mg/l/4h
LC50 inhalation rat (ppm)	66180 ppm/4h
LC50 inhalation rat (mg/l)	124.7 mg/l/4h

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<b>SECTION 12: Ecolo</b>	gical information
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#### 12.1. **Toxicity**

Ecology - general : Classification criteria are not met.

Ethyl alcohol (64-17-5)	
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Methyl alcohol (67-56-1)	
LC50 fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### 12.2. Persistence and degradability

Ethanol (0.0001% - 9.9999%), Methanol (1.00%	- 10.0000%), Tert-butyl Methyl Ether (0.0001% - 9.9999%) in Gasoline
Persistence and degradability	No data available.

#### Bioaccumulative potential

•		
Ethanol (0.0001% - 9.9999%), Methanol (1.00% - 10.0000%), Tert-butyl Methyl Ether (0.0001% - 9.9999%) in Gasoline		
Log Pow	No data available	
Log Kow	No data available	
Bioaccumulative potential	No data available.	
Ethyl alcohol (64-17-5)		
Log Pow	-0.32	
Methyl alcohol (67-56-1)		
BCF fish 1	< 10	
Log Pow	-0.77	

#### 12.4. **Mobility in soil**

Ethanol (0.0001% - 9.9999%), Methanol (1.00%	- 10.0000%), Tert-butyl Methyl Ether (0.0001% - 9.9999%) in Gasoline
Mobility in soil	No data available.

### Other adverse effects

Effect on ozone layer : None.

Effect on the global warming : No known ecological damage caused by this product.

## **SECTION 13: Disposal considerations**

## Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. 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.

Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more Waste disposal recommendations

guidance on suitable disposal methods.

## **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN3501 Chemical under pressure, flammable, n.o.s., 2.1

UN-No.(DOT)

Proper Shipping Name (DOT) : Chemical under pressure, flammable, n.o.s. Department of Transportation (DOT) Hazard : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

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Hazard labels (DOT) : 2.1 - Flammable gas



DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the

applicable liquefied compressed gases are authorized to be transported in portable tanks in

accordance with the requirements of 173.313 of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 335
DOT Packaging Bulk (49 CFR 173.xxx) : 313
DOT Quantity Limitations Passenger aircraft/rail : Forbidden

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 75 kg

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

No additional information available

Transport by sea

UN-No. (IMDG) : 3501

Proper Shipping Name (IMDG) : Chemical under pressure, flammable, n.o.s.

Class (IMDG) : 2.1 - Flammable gases

Air transport

UN-No.(IATA) : 3501

Proper Shipping Name (IATA) : Chemical under pressure, flammable, n.o.s.

Class (IATA) : 2.1 - Gases : Flammable

## SECTION 15: Regulatory information

## 15.1. US Federal regulations

## **Bulk ethanol (64-17-5)**

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

## 99% METHANOL (67-56-1)

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

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

## 15.2. International regulations

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Bulk ethanol (64-17-5)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
99% METHANOL (67-56-1)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects			

## **EU-Regulations**

#### **Bulk ethanol (64-17-5)**

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

## 99% METHANOL (67-56-1)

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

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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

## 15.2.2. National regulations

#### **Bulk ethanol (64-17-5)**

Listed on IARC (International Agency for Research on Cancer)

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)

## 99% METHANOL (67-56-1)

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)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

## 15.3. US State regulations

Bulk ethanol (64-17-5)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
Yes	Yes	No	No		
99% METHANOL (67-56-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	Yes	No	No		

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#### **Bulk ethanol (64-17-5)**

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

#### 99% METHANOL (67-56-1)

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

## **SECTION 16: Other information**

Indication of changes : Revised safety data sheet in accordance with OSHA final rule on GHS implementation

promulgated March 26, 2012.

Other information : 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. 3 (Dermal)	Acute toxicity (dermal) Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3		
ute Tox. 4 (Inhalation:gas)  Acute toxicity (inhalation:gas) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
Asp. Tox. 1	Aspiration hazard Category 1		
Carc. 1B	Carcinogenicity Category 1B		
Compressed gas	Gases under pressure Compressed gas		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
Flam. Gas 1	Flammable gases Category 1		
Flam. Liq. 2	Flammable liquids Category 2		
Muta. 1B	Germ cell mutagenicity Category 1B		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
STOT SE 1	Specific target organ toxicity (single exposure) Category 1		
H220	Extremely flammable gas		
H225	Highly flammable liquid and vapor		
H280	Contains gas under pressure; may explode if heated		
H301	Toxic if swallowed		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H311	Toxic in contact with skin		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H331	Toxic if inhaled		
H332	Harmful if inhaled		
H340	May cause genetic defects (Inhalation)		
H350	May cause cancer		
H370	Causes damage to organs		
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#### SDS US (GHS HazCom 2012)

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