

## Safety Data Sheet

Material Name: Methanol

SDS ID: Methanol-India

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

Methanol

**Synonyms**

Methyl alcohol, wood alcohol, methyl hydroxide

**Chemical Family**

Alcohols

**Product Description**

CAS #: 67-56-1. EC #: 200-659-6. UN #: 1230.

**Product Use**

Industrial use: Manufacture of substance. Distribution of substance. Formulation & (re)packing of substances and mixtures. Use as a fuel. Use in cleaning agents. Use as laboratory reagent. Water treatment chemicals, wastewater. Professional use: Use as a fuel. Use in cleaning agents. Use as laboratory reagent. Use in oil and gas field drilling and production operations. Consumer use: Consumer use of cleaning agents and de-icers: Spray, liquid products. Consumer use of fuels.

**Restrictions on Use**

None known

**Details of the supplier of the safety data sheet**

Methanex Corporation

1800 Waterfront Centre,

200 Burrard Street, V6C 3M1 - Canada

Phone: +1 604 661 2600

Emergency Phone #: CHEMTREC India 000-800-100-7141 (toll free in country) CHEMTREC India (Mumbai) +(91)-22-33543594

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with OECD Task Force on Harmonization of Classification and Labelling (Task Force on HCL) for health and environmental hazards, and by UNCETDG/ILO Working Group for Physical Hazards**

Flammable Liquids - Category 2

Acute Toxicity - Oral - Category 3

Acute Toxicity - Dermal - Category 3

Acute Toxicity - Inhalation - Vapor - Category 3

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - Category 1A

Specific Target Organ Toxicity - Single Exposure - Category 1 ( central nervous system , retina , systemic toxicity , optic nerve )

Specific Target Organ Toxicity - Single Exposure - Category 3

**GHS Label Elements**

**Symbol(s)**

## Safety Data Sheet

Material Name: Methanol

SDS ID: Methanol-India



### Signal Word

Danger

### Hazard Statement(s)

Highly flammable liquid and vapor.

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes serious eye irritation.

May damage fertility or the unborn child.

Causes damage to organs.

May cause respiratory irritation. May cause drowsiness or dizziness.

### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep container tightly closed.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Take action to prevent static discharges.

Use non-sparking tools.

Use only outdoors or in a well-ventilated area.

Use Personal Protective equipment as required.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

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

#### Response

In case of fire: Use appropriate media to extinguish.

If exposed or concerned: Call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Take off immediately all contaminated clothing and wash it before reuse.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Rinse mouth.

Call a POISON CENTER or doctor.

Specific treatment (see label).

#### Storage

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards**

Poison. May be fatal if swallowed. If swallowed there is a risk of blindness.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS
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CAS	Component Name	Percent
67-56-1	Methanol	100

Section 4 - FIRST AID MEASURES
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**Description of Necessary Measures**

Never give anything by mouth to an unconscious person. Get medical attention/advice if you feel unwell (show the label where possible). Call a POISON CENTER or doctor/physician. Toxic. Flammable. Wear appropriate personal protective equipment. Remove sources of ignition.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Administer oxygen if breathing is difficult. Immediately call a POISON CENTER or doctor.

**Skin**

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Wash with plenty of water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eyes**

IF IN EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**Most Important Symptoms/Effects**

**Acute**

Poison. May be fatal if swallowed. If swallowed there is a risk of blindness. Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Causes damage to organs. Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms.

**Delayed**

May damage fertility or the unborn child.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively. The severity of symptoms depends upon the length and concentration of the exposure. If ingested, get immediate medical attention.

**Note to Physicians**

Treat symptomatically. The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure. Call a POISON CENTER.

## Safety Data Sheet

Material Name: Methanol

SDS ID: Methanol-India

### Antidote

Fomepizole enhances elimination of metabolic formic acid. Antidote should be administered by qualified medical personnel.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, regular dry powder, water spray, alcohol resistant foam, sand. Use water spray to cool fire fire-exposed containers. Water will not cool methanol below its flash point. Collect spillage.

#### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

#### Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Mixtures >20% methanol with water are flammable. May form explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Containers may rupture or explode if exposed to heat. Dangerous gases may accumulate in confined spaces. Toxic.

#### Hazardous Combustion Products

Releases toxic gases, vapors. Carbon monoxide, carbon dioxide, formaldehyde.

#### Advice for firefighters

Methanol: Burns with invisible flame. Flame may not be visible in daylight. Cool containers with water spray until well after the fire is out.

#### Fire Fighting Measures

Do not allow run-off from fire-fighting to enter drains or water courses. Keep unnecessary people away, isolate hazard area and deny entry.

#### Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures for non-emergency personnel

Wear appropriate personal protective equipment. Move container from fire area if it can be done without risk. Do not breathe gas/vapor/spray. Avoid contact with eyes and skin.

### Personal precautions, protective equipment and emergency procedures for emergency personnel

Wear appropriate personal protective equipment. Move container from fire area if it can be done without risk. Do not breathe gas/vapor/spray. Avoid contact with eyes and skin.

### Environmental Precautions

Avoid release to the environment. Biodegradable at low concentrations. Soluble in water. When released, this product is expected to evaporate. Contact authorities in the event of pollution of soil and aquatic environment or discharge into drains. Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

### Methods and Materials for Containment and Cleaning Up

Wear suitable protective clothing and eye/face protection. Stop leak if this can be done without risk. Do not touch or walk through spilled material. Evacuate the area promptly and keep upwind of the spilled material. Ensure adequate ventilation. Avoid inhalation of mists or vapors. Avoid contact with eyes, skin and clothing. Remove all sources of ignition. Avoid friction, static electricity and sparks. Small spills: Absorb with sand or other non-combustible material. Use non-sparking tools and equipment. Collect spilled material in appropriate container for disposal. Clean contaminated surface thoroughly. Large spills: Contain the released material by diking the containment area with

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

absorbent. A vapor suppressing foam may be used to reduce vapors. Collect spilled material in appropriate container for reuse or disposal.

**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**

Use in a well ventilated area. Wear personal protective clothing and equipment, see Section 8. Eliminate all sources of ignition. No smoking. Do not enter confined spaces unless adequately ventilated. Clean up contamination/spills as soon as they occur. Decontaminate personnel, spill area and all tools and equipment. Use explosion-proof equipment. Use good industrial hygiene practices in handling this material. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and leaving work. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Do not breathe vapor.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Keep/Store only in original container. Keep out of direct sunlight, and away from heat, water, and incompatible materials. Ground/Bond container and receiving equipment. Provide appropriate fire extinguishers and spill cleanup equipment in or near storage area. Store at room temperature. Store in a dry area. Store in fireproof room. Keep unauthorized personnel away. Store in receptacles with relief valves, grounding and bonding, and secondary containment.

**Incompatible Materials**

Lead, aluminum, zinc, oxidizing agents, strong acids, strong bases, polyethylene, PVC (Polyvinyl chloride), nitrile

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<b>Methanol</b>	<b>67-56-1</b>
ACGIH:	200 ppm TWA
	250 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
India - PEL:	200 ppm TWA; 260 mg/m <sup>3</sup> TWA
	250 ppm STEL; 310 mg/m <sup>3</sup> STEL
	Skin notation

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**Methanol (67-56-1)**

15 mg/l Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific )

**Engineering Controls**

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Use explosion-proof electrical/ventilating/lighting equipment. Handle substance within a closed system. Ground/Bond container and receiving equipment. Maintain eye wash fountain and quick-drench shower in work area.

**Individual Protection Measures, such as Personal Protective Equipment**

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

**Eye/face protection**

Wear splash resistant safety goggles with a faceshield.

**Skin Protection**

Wear chemical resistant clothing to prevent skin contact.

**Respiratory Protection**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

**Protective Materials**

natural rubber, neoprene, butyl rubber

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	clear	<b>Physical State</b>	liquid
<b>Odor</b>	alcohol odor	<b>Color</b>	colorless
<b>Odor Threshold</b>	4.2 - 5960 ppm	<b>pH</b>	Not applicable
<b>Melting Point</b>	-97.8 °C	<b>Boiling Point</b>	64.7 °C
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	-97.6 °C
<b>Evaporation Rate</b>	4.1 (butyl acetate = 1 )	<b>Flammability (solid, gas)</b>	Not applicable
<b>Autoignition Temperature</b>	464 °C	<b>Flash Point</b>	11 °C
<b>Lower Explosive Limit</b>	5.5 %	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	36.5 %	<b>Vapor Pressure</b>	12.8 kPa (@ 20 °C )
<b>Vapor Density (air=1)</b>	1.1 (@ 20 °C )	<b>Specific Gravity (water=1)</b>	792 kg/m <sup>3</sup>
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	0.82
<b>Viscosity</b>	0.8 cP (@ 25 °C )	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	0.791 - 0.793 at 20 °C
<b>VOC</b>	100 %	<b>Molecular Weight</b>	32.04 (g/mol )

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

<b>Critical Temperature</b>	239.4 °C	<b>Oxidising properties</b>	Not oxidising
<b>Explosive properties</b>	Vapors may form explosive mixtures with air		

**Solvent Miscibility**

**Miscible**

Miscible with water.

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**

Containers may rupture or explode if exposed to heat.

**Chemical Stability**

Stable under normal conditions of use. In use may form flammable/explosive vapor-air mixture. Product is hygroscopic.

**Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Avoid direct sunlight.

**Incompatible Materials**

Lead, Aluminum, zinc, oxidizing agents, strong acids, strong bases, polyethylene, PVC (Polyvinyl chloride), nitrile

**Hazardous decomposition products**

Heat, carbon monoxide, carbon dioxide, flammable gases, formaldehyde

**Section 11 - TOXICOLOGICAL INFORMATION**

**Acute and Chronic Toxicity**

May be fatal if swallowed. If swallowed there is a risk of blindness. Toxic if swallowed, in contact with skin or if inhaled. May damage fertility or the unborn child.

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Methanol (67-56-1)**

Oral LD50 Rat 5600 mg/kg  
 Dermal LD50 Rabbit 15800 mg/kg  
 Inhalation LC50 Rat 64000 ppm 4 h

**Product Toxicity Data**

**Acute Toxicity Estimate**

Dermal	300 mg/kg
Inhalation - Vapor	3 mg/L
Oral	100 mg/kg

**Information on Likely Routes of Exposure**

**Inhalation**

Toxic if inhaled.

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

**Skin Contact**

Toxic in contact with skin.

**Eye Contact**

Causes serious eye irritation.

**Ingestion**

Poison. May be fatal if swallowed. If swallowed there is a risk of blindness.

**Irritation/Corrosivity Data**

Causes serious eye irritation. May cause respiratory irritation.

**Dermal Sensitization**

No data available.

**Respiratory Sensitization**

No data available.

**Immediate Effects**

Poison. Toxic if swallowed, in contact with skin or if inhaled. May be fatal if swallowed. If swallowed there is a risk of blindness. Causes serious eye irritation. Causes damage to organs. Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms.

**Delayed Effects**

May damage fertility or the unborn child.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

**Germ Cell Mutagenicity**

No data available.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

Central Nervous System, optic nerve, retina, systemic system

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

Not applicable

**Medical Conditions Aggravated by Exposure**

No data available.

**Section 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

<b>Methanol</b>	<b>67-56-1</b>
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through ]; LC50 96 h Pimephales promelas >100 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static ]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through ]



## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

Algae:	EC50 72 hr Selenastrum capricornutum 22000 mg/l
Invertebrate:	EC50 48 hr Daphnia >10000 mg/l

**Persistence and Degradability**

Rapidly degradable.

**Bioaccumulative Potential**

No indication of bioaccumulation potential.

**Mobility**

mobile

**Bioconcentration**

Bioconcentration factor (BCF): < 10

**Other Toxicity**

No additional information available.

**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. Recycle if possible.

**Component Waste Numbers**

<b>Methanol</b>	<b>67-56-1</b>
RCRA:	waste number U154 (Ignitable waste )

**Section 14 - TRANSPORT INFORMATION**

**IATA Information:**

**Shipping Name:** METHANOL

**Hazard Class:** 3

**UN#:** UN1230

**Packing Group:** II

**Required Label(s):** 3, 6.1

**IMDG Information:**

**Shipping Name:** METHANOL

**Hazard Class:** 3

**UN#:** UN1230

**Packing Group:** II

**Required Label(s):** 3, 6.1

**TDG Information:**

**Shipping Name:** METHANOL

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**Packing Group:** II

**Required Label(s):** 3, 6.1

# Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

**UN Information:**

**Shipping Name:** METHANOL

**Hazard Class:** 3

**UN#:** UN1230

**Packing Group:** II

**Required Label(s):** 3, 6.1

**ICAO Information:**

**Shipping Name:** METHANOL

**Hazard Class:** 3

**UN#:** UN1230

**Packing Group:** II

**Required Label(s):** 3, 6.1

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Methanol</b>	<b>67-56-1</b>
IBC Code:	Category Y

**Section 15 - REGULATORY INFORMATION**

**International Regulations**

**Stockholm Convention**

No components of this material are listed.

**Montreal Protocol**

No components of this material are listed.

**UN/FAO/Rotterdam Convention - Chemicals Subject to Prior Informed Consent (PIC)**

No components of this material are listed.

**India – Central Motor Vehicles (Fourth Amendment) Rules, 2005**

Flammable

**India –The Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules**

Present

**Component Analysis - Inventory**

**Methanol (67-56-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

**Section 16 - OTHER INFORMATION**

## Safety Data Sheet

**Material Name: Methanol**

**SDS ID: Methanol-India**

### **NFPA Ratings**

Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### **Preparation Date**

New SDS: 14 June 2018

### **Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

### **Other Information**

#### **Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes.

This document is intended as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Methanex Corporation and its subsidiaries make no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Methanex Corp. will not be responsible for damages resulting from use of or reliance upon this information.