## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name

SONIC Gas Line Anti-Freeze

Version #

01

Issue date

07-19-2012

Revision date

-

Supersedes date

Mixture

CAS #
Product code

2753

Product use

Gas line anti-freeze (stock item).

Synonym(s)

Wood Alcohol \* Gas Line Anti-freeze

Manufacturer information

Manufacturer

Recochem Inc.

Address

850 Montee de Liesse

Montreal, PQ

Telephone

517-341-3550

Supplier Address Federated Co-operatives Limited P.O. Box 1050, 401 - 22nd Street East

Saskatoon SK S7K 3M9 Canada

Telephone

(306) 244-3447

24 Hour Emergency

Estantiana

(613) 996-6666 - Canutec

Telephone

## 2. Hazards Identification

Physical state

Liquid.

**Appearance** 

Colorless liquid.

**Emergency overview** 

DANGER! Flammable liquid.

May be fatal or cause blindness if swallowed. Harmful if inhaled or absorbed through skin. Causes

skin, eye and respiratory tract irritation. May cause mild central nervous system effects.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

OSHA regulatory status

Potential health effects

Routes of exposure

Eves

Eye contact. Skin contact. Inhalation. Ingestion.

Lycs

Causes eye irritation.

Skin

Harmful if absorbed through skin. Causes skin irritation.

Inhalation

Harmful if inhaled. Causes respiratory tract irritation. May cause mild central nervous system

effects.

Ingestion

May be fatal if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness. Swallowing or vomiting

of the liquid may result in aspiration into the lungs.

**Target organs** 

Eyes. Skin. Respiratory system. Central nervous system.

Chronic effects

Organic solvents may be absorbed into the body by inhalation and cause permanent damage to

the nervous system, including the brain.

Signs and symptoms

inhalation: Vapors may cause drowsiness and dizziness. Eye contact: Causes redness and pain. Skin contact: Defatting of the skin. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness. Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases

reported of blindness, coma and death due to the ingestion of methanol. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

Potential environmental effects

The product contains volatile organic compounds which have a photochemical ozone creation

SONIC Gas Line Anti-Freeze

potential.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Methanol	67-56-1	60-100

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyelids wide apart. Get medical attention promptly if symptoms occur after washing.

Skin contact Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get

medical attention immediately.

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention

immediately.

In case of accidents: Call an ambulance immediately! Rinse mouth thoroughly with water and give

large amounts of milk or water to people not unconscious. Only induce vomiting at the instruction

of medical personnel. Lay on the side.

Notes to physician Treat symptomatically. Be aware that symptoms of lung edema (shortness of breath) may develop

up to 24 hours after exposure.

General advice Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere

to affected area. Call an ambulance. Continue flushing during transport to hospital.

#### 5. Fire Fighting Measures

Flammable properties

The product is flammable, and heating may generate vapors which may form explosive vapor/air

mixtures.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Extinguish with foam, carbon dioxide, dry powder or water fog.

None known.

## Protection of firefighters

Specific hazards arising from the chemical

Protective equipment and

precautions for firefighters

During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed or cooled with water.

## 6. Accidental Release Measures

Personal precautions If leakage cannot be stopped, evacuate area. Avoid any exposure. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground unless auth

Environmental precautions Avoid discharge into drains, water courses or onto the ground unless authorized by permit.

Methods for cleaning up Remove sources of ignition. Beware of the explosion danger. Absorb spillage with

non-combustible, absorbent material. Collect in containers and seal securely. For waste disposal,

see section 13 of the MSDS.

### 7. Handling and Storage

Handling Should be handled in closed systems, if possible. Avoid any exposure. Wear approved safety

goggles. Wear protective gloves and appropriate clothing to prevent skin contact. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke and do not spray near an open flame or other sources of ignition. Ground container and transfer equipment to eliminate static electric sparks. Observe good industrial hygiene

practices.

Storage Follow rules for flammable liquids. Do not store near heat sources or expose to high

temperatures. Keep away from heat, sparks and open flame. Store in a cool, dark place. Store

away from incompatible materials.

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CPH MSDS NA

#### 8. Exposure Controls / Personal Protection

Occu	pational	exposure	limits

US. ACGIH Threshold Limit Values		Value
Components	Туре	
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
US. OSHA Table Z-1 Limits for Air		1000)
Components	Туре	Value
Methanol (CAS 67-56-1)	PEL	260 mg/m3
		200 ppm
Canada, Alberta OELs (Occupation	al Health & Safety Code, Sch	nedule 1, Table 2)
Components	Type	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
	•	250 ppm
	TWA	262 mg/m3
	•	200 ppm
Methanol (CAS 67-56-1)	STEL TWA	250 ppm 200 ppm
,	AWT	200 ppm
	_	
Canada, Ontario OELs. (Control of	Exposure to Biological or Ci	iemicai Agents)
Canada, Ontario OELs. (Control of Components	Exposure to Biological or Ci Type	Value
Components		
	Туре	Value
Components Methanol (CAS 67-56-1)	Type STEL TWA	Value 250 ppm 200 ppm
Components Methanol (CAS 67-56-1)	Type STEL TWA	Value 250 ppm
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of	Type STEL TWA f Labor - Regulation Respect	Value  250 ppm  200 ppm  ing the Quality of the Work Environment)
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of Components	Type STEL TWA F Labor - Regulation Respect Type	Value  250 ppm 200 ppm ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of Components	Type STEL TWA F Labor - Regulation Respect Type	Value  250 ppm 200 ppm  ing the Quality of the Work Environment)  Value  328 mg/m3
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of Components	Type STEL TWA f Labor - Regulation Respect Type STEL	Value  250 ppm 200 ppm ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm
Components  Methanol (CAS 67-56-1)  Canada. Quebec OELs. (Ministry of Components  Methanol (CAS 67-56-1)	Type STEL TWA f Labor - Regulation Respect Type STEL TWA	Value  250 ppm 200 ppm ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm 262 mg/m3
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of Components	Type STEL TWA f Labor - Regulation Respect Type STEL TWA	Value  250 ppm 200 ppm ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm 262 mg/m3
Components Methanol (CAS 67-56-1) Canada, Quebec OELs, (Ministry of Components Methanol (CAS 67-56-1)  Mexico, Occupational Exposure Lin	Type STEL TWA  f Labor - Regulation Respect Type STEL TWA  nit Values Type	Value  250 ppm 200 ppm  ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm 262 mg/m3 200 ppm
Components Methanol (CAS 67-56-1) Canada. Quebec OELs. (Ministry of Components Methanol (CAS 67-56-1) Mexico. Occupational Exposure Li	Type STEL TWA f Labor - Regulation Respect Type STEL TWA nit Values	Value  250 ppm 200 ppm ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm 262 mg/m3 200 ppm  Value  310 mg/m3
Components Methanol (CAS 67-56-1) Canada, Quebec OELs, (Ministry of Components Methanol (CAS 67-56-1)  Mexico, Occupational Exposure Lin	Type STEL TWA  f Labor - Regulation Respect Type STEL TWA  nit Values Type	Value  250 ppm 200 ppm  ing the Quality of the Work Environment)  Value  328 mg/m3 250 ppm 262 mg/m3 200 ppm

**Engineering controls** 

Use explosion-proof equipment. If enclosed handling cannot be guaranteed, ventilation and protective clothing must be used. Provide easy access to water supply or an emergency shower.

#### Personal protective equipment

Eye / face protection

Wear approved safety goggles.

Skin protection

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical & Chemical Properties

**Appearance** 

Colorless liquid.

Physical state

Liquid.

SONIC Gas Line Anti-Freeze

Form Liquid. Color Colorless. Odor Alcohol-like. 2000 ppm Odor threshold Not applicable. Hq Vapor pressure 13.1 kPa 1.11 ( Air=1) Vapor density

**Boiling point** 148.1 °F (64.5 °C)

-144.4 °F (-98 °C) / No data available. Melting point/Freezing point

Solubility (water) Solubility in water.

Specific gravity

51.8 °F (11 °C) Closed Cup Flash point

Flammability limits in air, upper, % by volume

16 %

Flammability limits in air, lower, % by volume

6 %

Auto-ignition temperature

725 °F (385 °C)

**Evaporation rate** 2.1 (Butyl acetate = 1) Viscosity No data available.

100 % v/v Percent volatile Not applicable. Molecular weight

Other data

Decomposition temperature

No data available.

# 10. Chemical Stability & Reactivity Information

Chemical stability

Stable under normal temperature conditions.

Conditions to avoid

Heat, sparks, flames.

Incompatible materials

Strong oxidizing agents, Strong acids, Metals, Alkali metals,

Hazardous decomposition

products

At elevated temperatures: Carbon oxides. Formaldehyde.

Possibility of hazardous

reactions

Will not occur.

### 11. Toxicological Information

Toxicological data		
Components	Species	Test Results
Methanol (CAS 67-56-1)		
Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Rat	87.5 mg/l, 6 Hours
Oral .		•
LD50	Rat	5628 mg/kg
Sensitization	May cause eczema-like skin disorders (dermatitis).	
Acute effects	May be fatal or cause blindness if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness. Swallowing or vomiting of the liquid may result in aspiration into the lungs. Harmful if inhaled or absorbed through skin, May cause mild central nervous system effects.	

Causes skin, eye and respiratory tract irritation.

### US. ACGIH Threshold Limit Values

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

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Local effects

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Organic solvents may be absorbed into the body by inhalation and cause permanent damage to Chronic effects

the nervous system, including the brain.

Carcinogenicity No data available.

May cause heritable genetic damage. Mutagenicity

Reproductive effects No data available. Teratogenicity No data available

Eye contact: Causes redness and pain. Skin contact: Defatting of the skin. Prolonged and Symptoms and target organs

repeated exposure to high vapor concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol. Be aware that symptoms of lung edema

(shortness of breath) may develop up to 24 hours after exposure.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious **Further information** 

chemical pneumonia. Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some

cases from consumption of as little as 30 mls.

## 12. Ecological Information

Ecotoxicological data

Components **Test Results** Species

Methanol (CAS 67-56-1)

Aquatic

Crustacea EC50 > 10000 mg/l, 48 hours Water flea (Daphnia magna) Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

The product components are not classified as environmentally hazardous. However, this does not **Ecotoxicity** 

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

The product contains volatile organic compounds which have a photochemical ozone creation **Environmental effects** 

potential.

Persistence and degradability

No data available. Bioaccumulation / No data available.

Accumulation

Partition coefficient

Methanol

Mobility in environmental

media

The product is slightly soluble in water. The product contains organic solvents which will evaporate easily from all surfaces.

-0.77

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

No data available.

U154: Waste Methyl alcohol

Disposal instructions Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

#### 14. Transport Information

DOT

Basic shipping requirements:

UN1230 **UN number** Proper shipping name Methanol

Hazard class

6.1(PGI, II) Subsidiary hazard class

Packing group

11

3

Additional information:

Special provisions

IB2, T7, TP2

Packaging exceptions 150 202 Packaging non bulk Packaging bulk 242 IATA UN number UN1230 Methanol UN proper shipping name Transport hazard class(es) Subsidiary class(es) 6.1(PGI, II) Packing group **ERG** code 31. IMDG **UN number** UN1230 UN proper shipping name **METHANOL** Transport hazard class(es). Subsidiary class(es) 6.1(PGI, II) Packing group П EmS No. F-E, S-D TDG Proper shipping name **METHANOL** Hazard class Subsidiary hazard class 6.1(PGI, II) **UN number** UN1230 Packing group H Special provisions 43 General Read safety instructions, MSDS and emergency procedures before handling. 15. Regulatory Information US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200. TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated. TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Methanol (CAS 67-56-1) US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration Methanol (CAS 67-56-1) US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance Methanol (CAS 67-56-1) Listed. CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Methanol: 5000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

Section 311/312 (40 CFR

Yes

370)

**Drug Enforcement** 

Not controlled

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations

This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS status Controlled WHMIS classification

B2 - Flammable Liquids

D1B - Immediate/Serious-TOXIC D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling





#### Inventory status

State regulations

Country(s) or region Inventory name On Inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL) No
Canada Non-Domestic Substances List (NDSL) No

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

500 LBS

This product does not contain a chemical known to the State of California to cause cancer, birth

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance
Methanol (CAS 67-56-1)
Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - New Jersey RTK - Substances: Listed substance

Methanol (CAS 67-56-1) Listed.

US. Massachusetts RTK - Substance List

Methanol (CAS 67-56-1) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS 67-56-1)

US. Pennsylvania RTK - Hazardous Substances

Methanol (CAS 67-56-1) Listed.

Mexico regulations This product is dangerous according to Mexican regulations.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2\*

Flammability: 3 Physical hazard: 0

Physical hazard: (

NFPA ratings Health: 2

Flammability: 3 Instability: -

Instability:

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above named supplier nor any of its subsidiaries assumes any liability whatsoever for

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.