

#### **SAFETY DATA SHEET**

**Section 1: IDENTIFICATION** 

**Product Identifier:** T-2001

Other Means of Identification:

None known

Recommended Use: **Drilling Fluids Additive** Supplier: Bri-Chem Supply Ltd.

27075 Acheson Road Acheson, AB T7X 6B1

**Phone Number:** 780-962-9490

**Emergency Phone:** CHEMTREC 1-800-424-9300, 24/7

# Section 2: HAZARD(S) IDENTIFICATION

**Physical Hazards:** Flammable liquids Category 2 **Health Hazards:** Acute toxicity, oral Category 4 Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 3 Skin corrrosion/irritation Category 1A

Serious eye damage/irritation Category 1 Carcinogenicity Category 1B Reproductive toxicity Category 1 Specific target organ toxicity Category 1

following single exposure Specific target organ toxicity

following single exposure

Specific target organ toxicity following repeated exposure

Aspiration hazard Category 1 Category 1

Health hazards not otherwise

classified

Hazardous to the aquatic

Hazardous to the aquatic

environment, long-term

environment, acute hazard

hazard

**Label Elements:** 

**Environmental Hazards** 



Category 3 – Narcotic effects

Category 1

Category 2

Category 2



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Signal Word: Danger

Hazard Statements: Highly flammable liquid and vapour. Harmful if swallowed. May

be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Presents a health hazard which is not otherwise classified.

**Precautionary Statement** 

**Prevention:** Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

**Response:** IF SWALLOWED: Immediately call a POISON

CENTRE/doctor. Do NOT induce vomiting. IF SWALLOWED:

rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

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. Immediately call a POISON CENTRE/doctor. Take off

contaminated clothing and wash it before reuse.

In case of fire: Use appropriate media to extinguish. Collect

spillage.

Storage: Keep cool. Store in a well-ventilated place. Keep container

tightly closed. Store locked up.

**Disposal:** Dispose of contents/container in accordance with

local/regional/national/international regulations.

Other Hazards: None known





**Supplemental Information:** 31.5 % of the mixture consists of component(s) of unknown

acute oral toxicity. 34.5 % of the mixture consists of

component(s) of unknown acute dermal toxicity. 39 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 39 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

## **Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Common Name and Synonyms	CAS Number	%
	1330-20-7	50-60
	68477-31-6	5-10
	100-41-4	5-10
	67-56-1	5-10
	109-73-9	1-5
	91-20-3	1-5
	64742-94-5	1-5
	7664-93-9	1-5
	108-88-3	1-5
		Synonyms  1330-20-7 68477-31-6  100-41-4 67-56-1 109-73-9 91-20-3 64742-94-5 7664-93-9

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

	Section 4: FIRST-AID MEASURES
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre

immediately.





Ingestion:

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most Important Symptoms and Effects, Acute and Delayed:

Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Indication or Immediate Medical Attention and Special Treatment Needed: Provide general supportive measures and treat symptomatically. 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. Chemical 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. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General Information:** 

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## **Section 5: FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media:

Unsuitable Extinguishing Media:

Special Hazards Arising from the Chemical:

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water jet as an extinguisher, as this will spread the fire.

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the





presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During

fire, gases hazardous to health may be formed.

**Special Protective** 

**Equipment and Precautions** 

for Firefighters:

Fire Fighting

**Equipment/Instructions:** 

**Specific Methods:** 

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire areas if you can do so without risk.

Use standard firefighting procedures and consider the hazards

of other involved materials.

**General Fire Hazards:** Highly flammable liquid and vapour.

## Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and **Emergency Procedures:** 

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and Materials for** Containment and Cleaning Up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a noncombustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.





**Environmental Precautions:** Avoid release to the environment. Inform appropriate

managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Use appropriate containment to avoid environmental

contamination.

## **Section 7: HANDLING AND STORAGE**

Precautions for Safe Handling:

Respiratory protection is "only required" when sprays are present in the air.

Conditions for Safe Storage, Including any Incompatibilities:

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

## **Occupational Exposure Limits**

## **US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	STEL	150 ppm	-
	TWA	100 ppm	-
Butylamine (CAS 109-73-9)	Ceiling	5 ppm	-
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	-
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	-
	TWA	200 ppm	-
Naphthalene (CAS 91-20-3)	TWA	10 ppm	-
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³	Thoracic fraction
Toluene (CAS 108-88-3)	TWA	20 ppm	-





# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value
Benzene, dimethyl (CAS 1330-20-7)	STEL	651 mg/m³
		150 ppm
	TWA	434 mg/m³
		100 ppm
Butylamine (CAS 109-73-9)	Ceiling	15 mg/m³
		5 ppm
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m³
		125 ppm
	TWA	434 mg/m³
		100 ppm
Methyl Alcohol (CAS 67-56-1)	STEL	328 mg/m³
		250 ppm
	TWA	262 mg/m³
		200 ppm
Naphthalene (CAS 91-20-3)	STEL	79 mg/m³
		15 ppm
	TWA	52 mg/m³
		10 ppm
Sulfuric Acid (CAS 7664-93-9)	STEL	3 mg/m³
	TWA	1 mg/m³
Toluene (CAS 108-88-3)	TWA	188 mg/m³
		50 ppm

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Butylamine (CAS 109-73-9)	Ceiling	5 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	



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Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³	Mist
Toluene (CAS 108-88-3)	TWA	20 ppm	

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act)

Components	Type	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Butylamine (CAS 109-73-9)	Ceiling	5 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³	Thoracic fraction
Toluene (CAS 108-88-3)	TWA	20 ppm	

# Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Butylamine (CAS 109-73-9)	Ceiling	5 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m³	Thoracic fraction
Toluene (CAS 108-88-3)	TWA	20 ppm	

# Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	STEL	651 mg/m³	
		150 ppm	
	TWA	434 mg/m³	
		100 ppm	
Butylamine (CAS 109-73-9)	Ceiling	15 mg/m³	
		5 ppm	





Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m³
		125 ppm
	TWA	434 mg/m³
		100 ppm
Methyl Alcohol (CAS 67-56-1)	STEL	328 mg/m <sup>3</sup>
		250 ppm
	TWA	262 mg/m <sup>3</sup>
		200 ppm
Naphthalene (CAS 91-20-3)	STEL	79 mg/m³
		15 ppm
	TWA	52 mg/m³
		10 ppm
Sulfuric Acid (CAS 7664-93-9)	STEL	3 mg/m³
	TWA	1 mg/m³
Toluene (CAS 108-88-3)	TWA	188 mg/m³
		50 ppm

# Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	Form
Benzene, dimethyl (CAS 1330-20-7)	15 minute	150 ppm	
	8 hour	100 ppm	
Butylamine (CAS 109-73-9)	Ceiling	5 ppm	
Ethylbenzene (CAS 100-41-4)	15 minute	125 ppm	
Methyl Alcohol (CAS 67-56-1)	8 hour	100 ppm	
Naphthalene (CAS 91-20-3)	15 minute	15 ppm	
	8 hour	10 ppm	
Sulfuric Acid (CAS 7664-93-9)	15 minute	0.6 mg/m³	Thoracic fraction
	8 hour	0.2 mg/m³	Thoracic fraction
Toluene (CAS 108-88-3)	15 minute	60 ppm	
	8 hour	50 ppm	

Consult provincial or territorial exposure values, as may apply.





# **Biological Limit Values**

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Benzene, dimethyl (CAS 1330-20-7)	1.5 g/g	Methylhippuric acid	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methyl Alcohol (CAS No 67-56-1)	15 mg/l	Methanol	Urine	*
Toluene (CAS No 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.3 mg/g	Toluene	Urine	*
	0.2 mg/g	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

# **Exposure Guidelines**

# Canada - Alberta OELs: Skin Designation

Butylamine (CAS 109-73-9)	Can be absorbed through the skin.
Methyl Alcohol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

# Canada - British Columbia OELs: Skin designation

Butylamine (CAS 109-73-9)	Can be absorbed through the skin.
Methyl Alcohol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

# Canada - Manitoba OELs: Skin designation

Butylamine (CAS 109-73-9)	Can be absorbed through the skin.
Methyl Alcohol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

# Canada - Ontario OELs: Skin designation

Butylamine (CAS 109-73-9)	Can be absorbed through the skin.
Methyl Alcohol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.





## Canada - Quebec OELs: Skin designation

Butylamine (CAS 109-73-9) Can be absorbed through the skin.

Methyl Alcohol (CAS 67-56-1) Can be absorbed through the skin.

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

## Canada - Saskatchewan OELs: Skin Designation

Butylamine (CAS 109-73-9) Can be absorbed through the skin.

Methyl Alcohol (CAS 67-56-1) Can be absorbed through the skin.

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

Toluene (CAS 108-88-3) Can be absorbed through the skin.

## **US ACGIH Threshold Limit Values: Skin designation**

Butylamine (CAS 109-73-9) Can be absorbed through the skin.

Methyl Alcohol (CAS 67-56-1) Can be absorbed through the skin.

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

Appropriate Engineering Controls:

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this

product.

Individual Protection Measures, Such as Personal Protective Equipment: The following are recommendations only for the use of PPE. These recommendations cannot anticipate the variety of workplaces where the product will be used, nor how the product will be used in a variety of applications and processes. In determining appropriate PPE and engineering controls, it is the duty of the employer / user to evaluate their use of this product in accordance with the requirements of the local jurisdiction, and, if necessary, in conjunction with a

professional industrial hygienist.

Eye/Face Protection: Chemical respirator with organic vapour cartridge and full

facepiece.

**Skin Protection** 

**Hand Protection:** Wear appropriate chemical resistant gloves.

Other: Wear appropriate chemical resistant clothing. Use of an

impervious apron is recommended.

Respiratory Protection: Chemical respirator with organic vapour cartridge and full

facepiece.

**Thermal Hazards:** Wear appropriate thermal protective clothing, when necessary.



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General Hygiene Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. 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.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** 

Physical State: Liquid

Form: Liquid

Colour: Dark red

Odour: Aromatic

Odour Threshold: Not available

**pH**: 11.5

Melting Point/Freezing Point: -35°C (-31°F)

Initial Boiling Point and

**Boiling Range:** 

133.17°C (271.7°F) estimated

Flash Point:  $11.1^{\circ}C (52.0^{\circ}F)$ 

Evaporation Rate: Not available Flammability (Solid, Gas): Not applicable

**Upper/Lower Flammability or Explosive Limits** 

Flammability Limit - Lower

(%):

Not available

Flammability Limit – Upper

(%):

Not available

Explosive Limit – Lower (%): Not available

Vapor Pressure: Not available
Vapour Density: Not available

Relative Density: Not available

Solubility(ies)

Solubility (water): Not available

Partition Coefficient (n- Not available

Octanol/Water):

Auto-Ignition Temperature: Not available



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**Decomposition** Not available

Temperature:

Viscosity: Not available

Other Information

**Density**: 7.77 lbs/gal

0.93 g/ml

**Explosive Properties:** Not explosive

Flammability Class: Flammable IB estimated

Oxidizing Properties: Not oxidising

Percent Volatile: 66.96% estimated

Specific Gravity: 0.93

VOC: 66.96% estimated

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** The product is stable and non-reactive under normal conditions

of use, storage and transport.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

**Conditions to Avoid:** 

Reactions:

Hazardous polymerisation does not occur.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

Incompatible Materials Strong acids. Strong oxidising agents. Halogens.

**Hazardous Decomposition** 

**Products:** 

No hazardous decomposition products are known.

## Section 11: TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Inhalation:** Toxic if inhaled. May cause damage to organs by inhalation.

May cause drowsiness and dizziness. Headache. Nausea,

vomiting.

Skin Contact: Causes severe skin burns. Harmful in contact with skin.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Causes digestive tract burns. Harmful if swallowed. Droplets of

the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.





Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

# Information on Toxicological Effects

**Acute Toxicity:** May be fatal if swallowed and enters airways. Toxic if inhaled.

Harmful in contact with skin.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Components	Species	Test Results
Benzene, dimethyl- (CAS 1330-20-7)		
Acute		
Dermal LD50 Inhalation LC50 Oral LD50	Rabbit Rat Rat	>43 g/kg 6350 mg/l, 4 hours 3523 – 8600 mg/kg
ETHYLBENZENE (CAS 100-41-4)		
Acute		
Dermal LD50 Oral LC50	Rabbit Rat	17800 mg/kg 3500 mg/kg
METHYL ALCOHOL (CAS 67-56-1)		
Dermal LD50 Inhalation LC50	Rabbit Cat Rat	15800 mg/kg 85.41 mg/l, 4.5 hours 64000 ppm, 4 hours
Oral LD50	Dog Monkey Mouse Rabbit Rat	87.5 mg/l, 6 hours 8000 mg/kg 2 g/kg 7300 mg/kg 14.4 g/kg 5628 mg/kg



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> 2 g/kg

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NAPHTHALENE (CAS 91-20-3)

Acute

**Dermal** LD50

LD50 Rabbit Oral

LC50 Rat 490 mg/kg

**TOLUENE (CAS 108-88-3)** 

Acute

Dermal

LD50 Rabbit 12120 mg/kg

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

Serious Eye Causes serious eye damage.

Damage/Irritation:

Respiratory or Skin Sensitization

Respiratory Sensitization: Due to partial or complete lack of data the classification is not

possible.

**Skin Sensitization:** Due to partial or complete lack of data the classification is not

possible.

Germ Cell Mutagenicity: Due to partial or complete lack of data the classification is not

possible.

Carcinogenicity: May cause cancer.

**ACGIH Carcinogens** 

Benzene, dimethyl- A4 Not classifiable as a human carcinogen.

(CAS 1330-20-7)

ETHYLBENZENE A3 Confirmed animal carcinogen with unknown relevance to

(CAS 100-41-4) humans.

NAPHTHALENE A3 Confirmed animal carcinogen with unknown relevance to

(CAS 91-20-3) humans.

TOLUENE A4 Not classifiable as a human carcinogen.

(CAS 108-88-3)

Canada - Alberta OELs: Carcinogen category

SULFURIC ACID Suspected human carcinogen.

(CAS 7664-93-9)

Canada - Manitoba OELs: carcinogenicity

Benzene, dimethyl- Not classifiable as a human carcinogen.

(CAS 1330-20-7)

ETHYLBENZENE Confirmed animal carcinogen with unknown relevance to

(CAS 100-41-4) humans.



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NAPHTHALENE Confirmed animal carcinogen with unknown relevance to

(CAS 91-20-3) humans.

TOLUENE Not classifiable as a human carcinogen.

(CAS 108-88-3)

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene, dimethyl- 3 Not classifiable as to carcinogenicity to humans.

(CAS 1330-20-7)

ETHYLBENZENE 2B Possibly carcinogenic to humans.

(CAS 100-41-4)

NAPHTHALENE 2B Possibly carcinogenic to humans.

(CAS 91-20-3)

TOLUENE 3 Not classifiable as to carcinogenicity to humans.

(CAS 108-88-3)

US. National Toxicology Program (NTP) Report on Carcinogens

NAPHTHALENE Reasonably anticipated to be a human carcinogen.

(CAS 91-20-3)

Reproductive Toxicity: Components in this product have been shown to cause birth

defects and reproductive disorders in laboratory animals. May

damage fertility or the unborn child.

Specific Target Organ Causes damage to organs. May cause drowsiness and

Toxicity - Single Exposure: dizziness.

Specific Target Organ Causes damage to organs through prolonged or repeated

Toxicity - Repeated exposure.

Exposure:

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Chronic Effects:** Prolonged inhalation may be harmful. Causes damage to

organs through prolonged or repeated exposure. Prolonged

exposure may cause chronic effects.

**Section 12: ECOLOGICAL INFORMATION** 

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

Component Species Test Results

s

Benzene, dimethyl- (CAS 1330-20-7)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 7.711 – 9.591 mg/l, 96

hours

BUTYLAMINE (CAS 109-73-9)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 100 mg/l, 48 hours Fish LC50 Inland silverside (Menidia beryllina) 24 mg/l, 96 hours



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ETHYLBENZENE (CAS 100-41-4)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1.37 – 4.4 mg/l. 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 7.5 – 11 mg/l, 96 hours

METHYL ALCOHOL (CAS 67-56-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

NAPHTHALENE (CAS 91-20-3)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 1.09 – 3.4 mg/l, 48 hours

Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 1.11 – 1.68 mg/l, 96

hours

SULFURIC ACID (CAS 7664-93-9)

Aquatic

Crustacea EC50 Daphnia magna > 100 mg/l, 48 hours

LC50 Aesop shrimp (Pandalus montagui) 42.5 mg/l, 48 hours Cockle (Cerastoderma edule) 200 - 500 mg/l, 48hours

Common shrimp, sand shrimp (Crangon 70 - 80 mg/l, 48 hours

crangon)

Green or European shore crab (Carcinus 70 - 80 mg/l, 48 hours

maenas)

Fish LC50 Starry, European flounder (platichthys 100 - 330 mg/l, 48 hours

flesus)

Western mosquitofish (gambusia affinis) 42 mg/l, 24 hours

42 mg/l, 48 hours

42 mg/l, 96 hours

**TOLUENE (CAS 108-88-3)** 

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 5.46 – 9.83 mg/l,48

hours

Fish LC50 Coho salmon, silver salmon 8.11 mg/l, 96 hours

(Oncorhynchus kisutch)

Persistence and No data is available on the degradability of any ingredients in the

**Degradability:** mixture.

**Bioaccumulative Potential** 

Partition Coefficient n-Octanol/Water (log Kow)

Benzene, dimethylBUTYLAMINE
0.97
ETHYLBENZENE
3.15
METHYL ALCOHOL
NAPHTHALENE
3.3
TOLUENE
2.73



LY LTD T-2001

**SAFETY DATA SHEET** 

Mobility in Soil: No data available

Other Adverse Effects: The product contains volatile organic compounds which have a

photochemical ozone creation potential.

**Section 13: DISPOSAL CONSIDERATIONS** 

**Disposal Instructions:** Collect and reclaim or dispose in sealed containers at licensed

waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways

or ditches with chemical or used container. Dispose of

contents/container in accordance with

local/regional/national/international regulations.

**Local Disposal Regulations:** Dispose in accordance with all applicable regulations.

Hazardous Waste Code: The waste code should be assigned in discussion between the

user, the producer and the waste disposal company.

Waste from Dispose of in accordance with local regulations. Empty

Residues/Unused Products: containers or liners may retain some product residues. This

material and its container must be disposed of in a safe

manner (see Disposal instructions).

Contaminated Packaging: Since emptied containers may retain product residue, follow

label warnings even after container is emptied. Empty

containers should be taken to an approved waste handling site

for recycling or disposal.

## Section 14: TRANSPORT INFORMATION

Transportation information on packaging may be different from that listed.

Transport in Bulk According to Annex II of MARPOL 73/78

and the IBC Code:

TDG:

Not established



**General Information:** IMDG Regulated Marine Pollutant.

TDG

UN Number: UN2924

**UN Proper Shipping Name:** FLAMMABLE LIQUIDS, CORROSIVE, NOS (METHANOL,

SULPHURIC ACID)

**Transport Hazard Class(es)** 

Class: 3
Subsidiary Risk: 8



**SAFETY DATA SHEET** 

Packing Group: Ш

**Environmental Hazards:** Not available

**Special Precautions for** Read safety instructions, SDS and emergency procedures

User: before handling.

Section 15: REGULATORY INFORMATION

Canadian Regulations: This product has been classified in accordance with the hazard

criteria of the HPR and the SDS contains all the information

required by the HPR.

Canada DSL Inventory: Registration Status

1-Butanamine (CAS 109-73-9) Listed Benzene, dimethyl- (CAS 1330-20-7) Listed Benzene, ethyl- (CAS 100-41-4) Listed Benzene, methyl- (CAS 108-88-3) Listed Distillates, petroleum, catalytic reformer fractionator Listed

residue, low boiling (CAS 68477-31-6)

METHANOL (CAS 67-56-1) Listed NAPHTHALENE (CAS 91-20-3) Listed Solvent naphtha, petroleum, heavy arom. (CAS) Listed

64742-94-5)

SULFURIC ACID (CAS 7664-93-9) Listed

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

ETHYLBENZENE (CAS 100-41-4) Listed Listed

NAPHTHALENE (IN LIQUID FORM)

(CAS 91-20-3)

**TOLUENE (CAS 108-88-3)** Listed

XYLENES (CAS 1330-20-7) Listed

Canada NPRI (Supplier Notification Required): Listed substance

ETHYLBENZENE (CAS 100-41-4) Listed

METHANOL (CAS 67-56-1) Listed NAPHTHALENE (CAS 91-20-3) Listed

SULPHURIC ACID (CAS 7664-93-9) Listed TOLUENE (CAS 108-88-3) Listed

XYLENE, ALL ISOMERS (CAS 1330-20-7) Listed

**Controlled Drug and Substances Act:** 

Not regulated.

**Export Control List (CEPA** 

1999. Schedule 3):

Not listed.

Greenhouse Gases: Not listed.





Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Benzene, dimethyl- (CAS 1330-20-7) ETHYLBENZENE (CAS 100-41-4) METHYL ALCOHOL (CAS 67-56-1) NAPHTHALENE (CAS 91-20-3) SULFURIC ACID (CAS 7664-93-9)

**TOLUENE (CAS 108-88-3)** 

**Precursor Control Regulations** 

SULFURIC ACID (CAS 7664-93-9) Class B TOLUENE (CAS 108-88-3) Class B Class B

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 311/312 Hazardous

Chemicals:

Yes

Classified Hazard Flammable (gases, aerosols, liquids, or solids)

Categories: Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

## SARA 313 (TRI Reporting)

Chemical Name	CAS Number	% by wt.
Benzene, dimethyl-	1330-20-7	50-60
ETHYLBENZENE	100-41-4	5-10
METHYL ALCOHOL	67-56-1	5-10
NAPHTHALENE	91-20-3	1-5
SULFURIC ACID	7664-93-9	1-5
TOLUENE	108-88-3	1-5

Other Federal Regulations

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

SULFURIC ACID (CAS 7664-93-9) 6552 TOLUENE (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

SULFURIC ACID (CAS 7664-93-9) 20 %WV TOLUENE (CAS 108-88-3) 35 %WV



**SAFETY DATA SHEET** 

**DEA Exempt Chemical Mixtures Code Number** 

SULFURIC ACID (CAS 7664-93-9) 6552

TOLUENE (CAS 108-88-3) 594

**US State Regulations** 

**US. California Proposition 65** 

California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004

NAPHTHALENE (CAS 91-20-3) Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin

METHYL ALCOHOL (CAS 67-56-1) Listed: March 16, 2012

TOLUENE (CAS 108-88-3) Listed: January 1, 1991

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Benzene, dimethyl- (CAS 1330-20-7)

Distillates (petroleum), catalytic reformer fractionator residue,

low boiling (CAS 68477-31-6) ETHYLBENZENE (CAS 100-41-4) METHYL ALCOHOL (CAS 67-56-1) NAPHTHALENE (CAS 91-20-3) SULFURIC ACID (CAS 7664-93-9)

TOLUENE (CAS 108-88-3)

California Proposition 65

California Proposition 65 - CRT: Listed date/Carcinogenic Substance

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 NAPHTHALENE (CAS 91-20-3) Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental Toxin

METHYL ALCOHOL (CAS 67-56-1) Listed: March 16, 2012 TOLUENE (CAS 108-88-3) Listed: January 1, 1991

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Benzene, dimethyl- (CAS 1330-20-7)

Distillates (petroleum), catalytic reformer fractionator residue,

low-boiling (CAS 68477-31-6) ETHYLBENZENE (CAS 100-41-4) METHYL ALCOHOL (CAS 67-56-1) NAPHTHALENE (CAS 91-20-3) SULFURIC ACID (CAS 7664-93-9)

TOLUENE (CAS 108-88-3)



#### **SAFETY DATA SHEET**

**International Regulations** 

Stockholm Convention:Not applicableRotterdam Convention:Not applicableKyoto Protocol:Not applicableMontreal Protocol:Not applicableBasel Convention:Not applicable

#### International Inventories

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707,

Not regulated

Subpt. D):

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



#### **SAFETY DATA SHEET**

## **CERCLA Hazardous Substance List (40 CFR 302.4):**

Benzene, dimethyl- (CAS 1330-20-7)	Listed
BUTYLAMINE (CAS 109-73-9)	Listed
ETHYLBENZENE (CAS 100-41-4)	Listed
METHYL ALCOHOL (CAS 67-56-1)	Listed
NAPHTHALENE (CAS 91-20-3)	Listed
SULFURIC ACID (CAS 7664-93-9)	Listed
TOLUENE (CAS 108-88-3)	Listed
SHI ELIDIC ACID (CAS 7664 02 0)	1000 lb

SARA 304 Emergency Release Notification:

SULFURIC ACID (CAS 7664-93-9)

1000 lbs

OSHA Specifically Regulated Not listed

Substances (29 CFR 1910.1001-1053):

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**SARA 302 Extremely Hazardous Substance** 

	CAS Number		Threshold Planning	Threshold Planning	Threshold Planning
		(Pounds)	Quantity (Pounds)	Quantity, Lower Value (Pounds)	Quantity, Upper Value (Pounds)
SULFURIC ACID	7664-93-9	1000	1000	-	-

## **Section 16: OTHER INFORMATION**

#### Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

**Prepared by:** Bri-Chem Supply Ltd. **Revision Date:** September 12, 2024