

SIGMA-ALDRICH**Material Safety Data Sheet**Version 3.1
Revision Date 07/30/2009
Print Date 08/04/2009**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Guanosine 5'-triphosphate sodium salt hydrate
Product Number : G8877
Brand : Sigma
Company : Sigma-Aldrich Canada, Ltd
2149 Winston Park Drive
OAKVILLE ON L6H 6J8
CANADA
Telephone : +1 9058299500
Fax : +1 9058299292
Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 5'-GTP-Na₂
Formula : C₁₀H₁₆N₅O₁₄P₃ · xNa⁺ · yH₂O

CAS-No.	EC-No.	Index-No.	Concentration
Ethanol 64-17-5	200-578-6	603-002-00-5	<= 2 %
Methanol 67-56-1	200-659-6	603-001-00-X	<= 2 %
Guanosine 5'-tetrahydrogen triphosphate), trisodium salt 36051-31-7	252-847-2	-	>= 90 - <= 100 %

3. HAZARDS IDENTIFICATION**Emergency Overview****Target Organs**

Eyes, Kidney, Liver, Heart, Central nervous system, Nerves.

WHMIS Classification

D1A	Very Toxic Material Causing Immediate and Serious Toxic Effects	Highly toxic by inhalation Toxic by ingestion Toxic by skin absorption Moderate skin irritant Moderate eye irritant
D2B		

HMIS Classification

Health Hazard: 3

Chronic Health Hazard: *

Sigma - G8877

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 1 of 6

Flammability: 0**Physical hazards:** 1**Potential Health Effects**

Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Skin	Toxic if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

4. FIRST AID MEASURES**General advice**

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point no data available

Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

Sigma - G8877

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 2 of 6

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Methanol	67-56-1	TWA	200 ppm	2006-11-29	Canada. British Columbia OEL
Remarks		STEL	250 ppm	2006-11-29	Canada. British Columbia OEL
		TWAE V	200 ppm 260 mg/m ³	2005-12-17	Canada. Ontario OELs
		Skin			
		STEV	250 ppm 325 mg/m ³	2005-12-17	Canada. Ontario OELs
		Skin			
		TWA	200 ppm 262 mg/m ³	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
			Substance may be readily absorbed through intact skin		
		STEL	250 ppm 328 mg/m ³	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
			Substance may be readily absorbed through intact skin		
		TWA V	200 ppm 262 mg/m ³	2006-12-29	Canada. Quebec OELs
		Skin (percutaneous)			
		STEV	250 ppm 328 mg/m ³	2006-12-29	Canada. Quebec OELs
		Skin (percutaneous)			
		TWA	200 ppm 262 mg/m ³	2007-01-01	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
			Substance may be readily absorbed through intact skin		
		STEL	250 ppm 328 mg/m ³	2007-01-01	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
			Substance may be readily absorbed through intact skin		

Sigma - G8877

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 3 of 6

Substance may be readily absorbed through intact skin

Ethanol	64-17-5	TWA	1,000 ppm	2006-11-29	Canada. British Columbia OEL
		TWAE V	1,000 ppm 1,900 mg/m ³	2005-12-17	Canada. Ontario OELs
		TWA	1,000 ppm 1,880 mg/m ³	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

Remarks Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required

Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required