# **Material Safety Data Sheet**

Coulomat A, AQUASTAR ®, For Moisture Determination



### **Section 1. Product and Company Identification**

Product name : Coulomat A, AQUASTAR ® , For Moisture Determination

Product code : AX1697A Synonym : None.

Material uses : Other non-specified industry: Analytical reagent.

**Manufacturer**: EMD Chemicals Inc.

P.O. Box 70

480 Democrat Road Gibbstown, NJ 08027

856-423-6300 Technical Service Monday - Friday: 8:00 - 5:00 PM

Validation date : 3/1/2007.

Print date : 3/1/2007.

In case of emergency : 800-424-9300 CHEMTREC (USA)

613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

#### Section 2. Hazards Identification

Physical state : Liquid.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Emergency overview** : DANGER!

POISON!

CAUSES EYE AND SKIN BURNS.

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

VAPOR HARMFUL.

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

CANNOT BE MADE NONPOISONOUS.

CAUSES RESPIRATORY TRACT IRRITATION.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LUNGS, LIVER, HEART, GASTROINTESTINAL TRACT, RESPIRATORY

TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

SUSPECT CANCER HAZARD.

CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.

WARNING: This product contains a chemical(s) known to the State of California to

cause cancer.

Do not ingest. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Risk of cancer depends on

duration and level of exposure.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Eyes**: Corrosive to eyes.

Skin : Toxic in contact with skin. Corrosive to the skin.Inhalation : Toxic by inhalation. Irritating to respiratory system.

**Ingestion**: Very toxic if swallowed. May cause burns to mouth, throat and stomach.

Carcinogenic effects : Contains material which may cause cancer. Risk of cancer depends on duration and

level of exposure.

**Mutagenic effects**: No known significant effects or critical hazards.

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### Section 2. Hazards Identification

Teratogenicity / Reproductive toxicity

: No known significant effects or critical hazards.

Medical conditions aggravated by overexposure : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

### Section 3. Composition/Information on Ingredients

#### **United States**

<u>Name</u>	<u>CAS number</u>	<u>% by Weigh</u> t
Methanol	67-56-1	40 - 50
Chloroform	67-66-3	30 - 40
Imidazole	288-32-4	10 - 20
Sulfur Dioxide	7446-09-5	1 - 10
lodine	7553-56-2	0 - 1

### **Section 4. First Aid Measures**

Eye contact

: Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

Skin contact

: Get medical attention immediately. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

: Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

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### **Section 5. Fire Fighting Measures**

Flammability of the product: Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Products of combustion** 

: These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.), halogenated compounds, hydrogen chloride.

**Extinguishing media** 

Suitable

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Special exposure hazards

: Not available.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: Dangerous fire and explosion risk. Container explosion may occur under fire conditions

Special remarks on fire

or when heated. Vapor may travel a considerable distance to source of ignition and flash back. (Methanol)

hazards

### Section 6. Accidental Release Measures

Personal precautions

: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up

: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a nonsparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

### Section 7. Handling and Storage

Handling

: Do not ingest. Do not get in eyes or on skin or clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

### Section 8. Exposure Controls/Personal Protection

**Product name** 

**United States** 

Methanol

**Exposure limits** 

ACGIH (United States, 1994). Skin

TWA: 262 mg/m<sup>3</sup> STEL: 328 mg/m<sup>3</sup>

OSHA (United States, 1989). Skin

TWA: 260 mg/m<sup>3</sup> STEL: 325 mg/m<sup>3</sup>

NIOSH REL (United States, 12/2001). Skin

STEL: 325 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 250 ppm 15 minute/minutes. Form: All forms TWA: 260 mg/m<sup>3</sup> 10 hour/hours. Form: All forms TWA: 200 ppm 10 hour/hours. Form: All forms

OSHA PEL (United States, 8/1997).

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### **Section 8. Exposure Controls/Personal Protection**

TWA: 260 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 200 ppm 8 hour/hours. Form: All forms

OSHA PEL 1989 (United States, 3/1989). Skin

STEL: 325 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 250 ppm 15 minute/minutes. Form: All forms TWA: 260 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 200 ppm 8 hour/hours. Form: All forms

ACGIH TLV (United States, 1/2005). Skin Notes: Substances for which there is a Biological Exposure Index or Indices

STEL: 328 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 250 ppm 15 minute/minutes. Form: All forms TWA: 262 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 200 ppm 8 hour/hours. Form: All forms

ACGIH (United States, 1996).

TWA: 49 mg/m<sup>3</sup>

OSHA (United States, 1989).

TWA: 9.78 mg/m<sup>3</sup>

OSHA PEL (United States, 8/1997).

CEIL: 240 mg/m<sup>3</sup> Form: All forms CEIL: 50 ppm Form: All forms

OSHA PEL 1989 (United States, 3/1989).

TWA: 9.78 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 2 ppm 8 hour/hours. Form: All forms

ACGIH TLV (United States, 1/2006). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. 1996 Adoption Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124):36338-33351, June 30, 1993, for revised OSHA PEL. Refers to Appendix A -- Carcinogens.

TWA: 49 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 10 ppm 8 hour/hours. Form: All forms

NIOSH REL (United States, 12/2001). Notes: See Appendix A -

NIOSH Potential Occupational Carcinogen STEL: 9.78 mg/m<sup>3</sup> 60 minute/minutes. Form: All forms

STEL: 2 ppm 60 minute/minutes. Form: All forms

ACGIH TLV (United States, 1/2005). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.

STEL: 13 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 5 ppm 15 minute/minutes. Form: All forms TWA: 5.2 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 2 ppm 8 hour/hours. Form: All forms

NIOSH REL (United States, 12/2001).

STEL: 13 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 5 ppm 15 minute/minutes. Form: All forms TWA: 5 mg/m<sup>3</sup> 10 hour/hours. Form: All forms TWA: 2 ppm 10 hour/hours. Form: All forms

OSHA PEL (United States, 8/1997).

TWA: 13 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 5 ppm 8 hour/hours. Form: All forms **OSHA PEL 1989 (United States, 3/1989).** 

STEL: 10 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms STEL: 5 ppm 15 minute/minutes. Form: All forms TWA: 5 mg/m<sup>3</sup> 8 hour/hours. Form: All forms TWA: 2 ppm 8 hour/hours. Form: All forms

Consult local authorities for acceptable exposure limits.

Chloroform

Sulfur Dioxide

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### **Section 8. Exposure Controls/Personal Protection**

**Engineering measures** 

: Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: splash goggles, face shield

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommended: safety apron

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Section 9. Physical and Chemical Properties

Physical state

: Liquid.

Flash point

: Closed cup: 12.222°C (54°F).

**Auto-ignition temperature** 

: The lowest known value is 464°C (867.2°F) (Methanol).

Flammable limits

: The greatest known range is Lower: 6% Upper: 36.5% (Methanol)

Color

: Colorless to light yellow.

Boiling/condensation point: The lowest known value is 60.5°C (140.9°F) (Chloroform). Weighted average: 62.75°C (144.9°F)

Melting/freezing point

: May start to solidify at -63°C (-81.4°F) based on data for: Chloroform . Weighted average: -82.56°C (-116.6°F)

Critical temperature

: The lowest known value is 263.3°C (505.9°F) (Chloroform ).

Relative density

: Weighted average: 1.02 (Water = 1)

Vapor pressure

: The highest known value is 22.3 kPa (167 mm Hg) (at 20°C) (Chloroform ). Weighted average: 17.01 kPa (127.59 mm Hg) (at 20°C)

Vapor density

: The highest known value is 4.1 (Air = 1) (Chloroform ). Weighted average: 2.42 (Air =

**Odor threshold** 

The lowest known value is 100 ppm (Methanol) Weighted average: 145.94 ppm

**Evaporation rate** 

: The highest known value is 10.2 (Chloroform ) Weighted average: 5.64compared with

Butyl acetate.

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## Section 10. Stability and Reactivity

Stability and reactivity

substances

: The product is stable.

**Incompatibility with various:** Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: metals, acids and alkalis.

Hazardous decomposition

: These products are halogenated compounds, hydrogen chloride.

products

Hazardous polymerization

: Will not occur.

**Conditions of reactivity** 

: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.

Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.

### **Section 11. Toxicological Information**

LDLo

LDLo

LC50

LD50

LD50

LD50

#### **Toxicity data United States**

<u>Test</u>	Result	Route	<u>Species</u>
LD50	5628 mg/kg	Oral	Rat
LD50	14200 mg/kg	Oral	Rabbit
LD50	7300 mg/kg	Oral	Mouse
LD50	15800 mg/kg	Dermal	Rabbit
LDLo	143 mg/kg	Oral	human
LDLo	428 mg/kg	Oral	human
LDLo	6422 mg/kg	Oral	man
LDLo	393 mg/kg	Dermal	Monkey.
LC50	64000 ppm (4 hour/hours)	Inhalation	Rat
LD50	695 mg/kg	Oral	Rat
LD50	1250 mg/kg	Oral	Rat
LD50	36 mg/kg	Oral	Mouse
	LD50 LD50 LD50 LD50 LDL0 LDL0 LDL0 LDL0	LD50 5628 mg/kg LD50 14200 mg/kg LD50 7300 mg/kg LD50 15800 mg/kg LDLo 143 mg/kg LDLo 428 mg/kg LDLo 6422 mg/kg LDLo 393 mg/kg LDLo 393 mg/kg LC50 64000 ppm (4 hour/hours) LD50 695 mg/kg LD50 1250 mg/kg	LD50         5628 mg/kg         Oral           LD50         14200 mg/kg         Oral           LD50         7300 mg/kg         Oral           LD50         15800 mg/kg         Dermal           LDLo         143 mg/kg         Oral           LDLo         428 mg/kg         Oral           LDLo         6422 mg/kg         Oral           LDLo         393 mg/kg         Dermal           LC50         64000 ppm (4 Inhalation hour/hours)           LD50         695 mg/kg         Oral           LD50         1250 mg/kg         Oral

Chronic effects on humans : CARCINOGENIC EFFECTS Classified + (Proven.) by NIOSH [Chloroform ]. Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC, 3 (Possible for humans.) by European Union [Chloroform]. Classified 2 (Reasonably anticipated to be human carcinogens.) by NTP [Chloroform ]. Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [Sulfur Dioxide]. Contains material which causes damage to the following organs: kidneys, lungs, liver. heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Oral

Oral

Oral

Oral

Oral

Inhalation

Rabbit

man

Rat

Rat

Guinea pig

Mouse

Other toxic effects on

: Extremely hazardous in case of ingestion, .

humans

**Imidazole** 

Very hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive)

, of inhalation (lung irritant).

Hazardous in case of inhalation (lung corrosive).

500 mg/kg

2514 mg/kg

hour/hours)

220 mg/kg

760 mg/kg

880 mg/kg

47702 mg/m<sup>3</sup> (4

Specific effects

Carcinogenic effects : Contains material which may cause cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenic effects : No known significant effects or critical hazards.

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### Section 11. Toxicological Information

Teratogenicity / Reproductive toxicity : No known significant effects or critical hazards.

Sensitization

Ingestion : May cause burns to mouth, throat and stomach.

Inhalation : Irritating to respiratory system.

**Eyes** : Corrosive to eyes. Skin : Corrosive to the skin.

### **Section 12. Ecological Information**

#### **Ecotoxicity data**

#### **United States**

<u>Species</u>	<u>Period</u>	<u>Result</u>
Daphnia magna (EC50)	48 hour/hours	>10000 mg/l
Oncorhynchus mykiss (EC50)	48 hour/hours	13200 mg/l
Lepomis macrochirus (EC50)	48 hour/hours	16000 mg/l
Daphnia magna (LC50)	96 hour/hours	>100 mg/l
Pimephales promelas (LC50)	96 hour/hours	>100 mg/l
Lepomis macrochirus (LC50)	96 hour/hours	15400 mg/l
Scenedesmus subspicatus (EC50)	48 hour/hours	560 mg/l
Scenedesmus subspicatus (EC50)	48 hour/hours	950 mg/l
Lepomis macrochirus (LC50)	96 hour/hours	13.3 mg/l
Oncorhynchus mykiss (LC50)	96 hour/hours	15.1 mg/l
Lepomis macrochirus (LC50)	96 hour/hours	16.2 mg/l
Oncorhynchus mykiss (LC50)	96 hour/hours	17.1 mg/l
	Daphnia magna (EC50) Oncorhynchus mykiss (EC50) Lepomis macrochirus (EC50) Daphnia magna (LC50) Pimephales promelas (LC50) Lepomis macrochirus (LC50) Scenedesmus subspicatus (EC50) Scenedesmus subspicatus (EC50) Lepomis macrochirus (LC50) Oncorhynchus mykiss (LC50) Lepomis macrochirus (LC50)	Daphnia magna (EC50)  Oncorhynchus mykiss (EC50)  Lepomis macrochirus (EC50)  Daphnia magna (LC50)  Daphnia magna (LC50)  Daphnia magna (LC50)  Pimephales promelas (LC50)  Lepomis macrochirus (LC50)  Scenedesmus subspicatus  (EC50)  Scenedesmus subspicatus  (EC50)  Lepomis macrochirus (LC50)  Lepomis macrochirus (LC50)  Daphnia magna (EC50)  96 hour/hours  96 hour/hours  96 hour/hours  97 Hours  98 Hour/hours  99 Hour/hours  99 Hour/hours  99 Hour/hours  99 Hour/hours  99 Hour/hours

**Environmental precautions**: No known significant effects or critical hazards.

**Products of degradation** 

: These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.),

sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.), halogenated compounds.

biodegradation

**Toxicity of the products of**: The products of degradation are as toxic as the product itself.

### Section 13. Disposal Considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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### **Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	UN2924	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (CONTAINS METHANOL & IMIDAZOLE)	3	=	r AMMER LICEN	Not available.

PG\* : Packing group

### Section 15. Regulatory Information

#### **United States**

**HCS Classification** : Flammable liquid

Highly toxic material Corrosive material

Carcinogen

Target organ effects

U.S. Federal regulations : TSCA 8(b) inventory: Listed

SARA 302/304/311/312 extremely hazardous substances: Sulfur Dioxide; Chloroform SARA 302/304 emergency planning and notification: Sulfur Dioxide; Chloroform SARA 302/304/311/312 hazardous chemicals: Sulfur Dioxide; Chloroform; Imidazole;

Methanol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sulfur Dioxide: reactive, Immediate (acute) health hazard, Delayed (chronic) health hazard; Chloroform: Immediate (acute) health hazard, Delayed (chronic) health hazard; Imidazole: Immediate (acute) health hazard; Methanol: Fire hazard, Immediate (acute)

health hazard, Delayed (chronic) health hazard Clean Water Act (CWA) 307: Chloroform

Clean Water Act (CWA) 311: Chloroform

Clean Air Act (CAA) 112 accidental release prevention: Sulfur Dioxide; Chloroform Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: Sulfur Dioxide; Chloroform

#### **SARA 313**

	Product name	<u>CAS number</u>	<b>Concentration</b>
Form R - Reporting	: Methanol	67-56-1	40 - 50
requirements	Chloroform	67-66-3	30 - 40
Supplier notification	: Methanol	67-56-1	40 - 50
	Chloroform	67-66-3	30 - 40

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

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### **Section 15. Regulatory Information**

State regulations

: Pennsylvania RTK: Sulfur Dioxide: (environmental hazard, generic environmental hazard); Chloroform: (special hazard, environmental hazard, generic environmental hazard); lodine: (generic environmental hazard); Methanol: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Sulfur Dioxide; Chloroform; Iodine; Methanol

New Jersey: Sulfur Dioxide; Chloroform; Iodine; Methanol

WARNING: This product contains a chemical(s) known to the State of California to

cause cancer.

Canada

WHMIS (Canada) : Class B-2: Flammable liquid

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive material

CEPA DSL/CEPA NDSL : CEPA DSL: Sulfur Dioxide; Chloroform; Imidazole; Methanol

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**EU** regulations

Hazard symbol/symbols



**Risk phrases**: R11- Highly flammable.

R40- Limited evidence of a carcinogenic effect.

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

 $R39/23/24/25\hbox{-} Toxic: danger\ of\ very\ serious\ irreversible\ effects\ through\ inhalation,\ in$ 

contact with skin and if swallowed.

R48/20/22- Harmful: danger of serious damage to health by prolonged exposure through

inhalation and if swallowed.

R34- Causes burns.

R37- Irritating to respiratory system.

Safety phrases : S1/2- Keep locked up and out of the reach of children.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

S63- In case of accident by inhalation: remove casualty to fresh air and keep at rest.

International regulations

International lists : Australia (NICNAS): Sulfur Dioxide; Chloroform ; Imidazole; Iodine; Methanol

China: Sulfur Dioxide; Chloroform; Imidazole; Iodine; Methanol

Germany water class: Sulfur Dioxide; Chloroform; Imidazole; Iodine; Methanol

Japan (METI): Sulfur Dioxide; Chloroform; Imidazole; Methanol

Korea (TCCL): Sulfur Dioxide; Chloroform; Imidazole; Iodine; Methanol

Philippines (RA6969): Sulfur Dioxide; Chloroform; Imidazole; Iodine; Methanol

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#### **Section 16. Other Information**

Label requirements

: DANGER! POISON!

CAUSES EYE AND SKIN BURNS.

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

VAPOR HARMFUL.

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

CANNOT BE MADE NONPOISONOUS.

CAUSES RESPIRATORY TRACT IRRITATION.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LUNGS, LIVER, HEART, GASTROINTESTINAL TRACT, RESPIRATORY

TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

SUSPECT CANCER HAZARD.

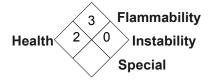
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.

WARNING: This product contains a chemical(s) known to the State of California to

cause cancer.

National Fire Protection Association (U.S.A.)



#### Notice to reader

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