

## Material Safety Data Sheet

Date Printed: 27/JAN/2005

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Version 1.3

According to 91/155/EEC

## 1 - Product and Company Information

Product Name HYDRANAL-COULOMAT AG OVEN  
 Product Number 34739

Company Sigma-Aldrich Company Ltd.  
 The Old Brickyard  
 New Road, Gillingham SP8 4XT  
 United Kingdom

Technical Phone # 44-(0)-1747-833000  
 Fax 44-(0)-1747-833313  
 Emergency Phone # 44-(0)-1747-833100

## 2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
HYDRANAL COULOMAT AG OVEN	None	None	None

Ingredient Name	Percent	CAS #	EC no	Annex I Index Number
Information regarding the specific chemical identity of this material is being withheld as a trade secret of the manufacturer.		None	None	None

METHANOL	> 30	67-56-1	200-659-6	603-001-00-X
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Symbols: F T

R-Phrases: 11 23/24/25 39/23/24/25

Highly flammable. Toxic by inhalation, in contact with skin and if  
 swallowed. Toxic: danger of very serious irreversible effects  
 through inhalation, in contact with skin and if swallowed.

IMIDAZOLE	> 5 < 10	288-32-4	206-019-2	None
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Symbols: C

R-Phrases: 22 34

Harmful if swallowed. Causes burns.

DIETHANOLAMINE	> 5 < 12	111-42-2	203-868-0	603-071-00-1
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Symbols: Xn

R-Phrases: 22 38 41 48/22

Harmful if swallowed. Irritating to skin. Risk of serious damage  
 to eyes. Harmful: danger of serious damage to health by prolonged  
 exposure if swallowed.

SULFUR DIOXIDE	>= 5 <= 10	7446-09-5	231-195-2	None
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Symbols: T

Toxic by inhalation. Causes burns.

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### 3 - Hazards Identification

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#### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Irritating to skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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### 4 - First Aid Measures

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#### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

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### 5 - Fire Fighting Measures

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#### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions. Vapor may travel considerable distance to source of ignition and flash back.

Explosion Hazards: Container explosion may occur under fire conditions.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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### 6 - Accidental Release Measures

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#### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### ENVIRONMENTAL PRECAUTION(S)

Do not allow material to enter drains or water courses. Avoid contaminating sewers and waterways with this material.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

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7 - Handling and Storage

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HANDLING

Directions for Safe Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. Wash thoroughly after handling.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.

SPECIAL REQUIREMENTS: Hygroscopic.

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8 - Exposure Controls / Personal Protection

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ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Discard contaminated clothing and shoes.

EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	100 MG/M3
Poland		NDSch	300 MG/M3
Poland		NDSP	-

EXPOSURE LIMITS - DENMARK

Source	Type	Value
OEL	TWA	260 mg/m3 200 ppm

Remarks: H METHANOL

EXPOSURE LIMITS - GERMANY

Source	Type	Value
TRGS 900	OEL	260 mg/m3 200 ppm

Remarks: 4

Remarks: H METHANOL

EXPOSURE LIMITS - NORWAY

Source	Type	Value
OEL	TWA	130 mg/m3 100 ppm

Remarks: H METHANOL

EXPOSURE LIMITS - SWEDEN

Source	Type	Value
	LLV (Level	250 mg/m3 200 ppm

Remarks: H

Remarks: METHANOL

EXPOSURE LIMITS - SWITZERLAND

Source	Type	Value
OEL	OEL	260 mg/m3
		200 ppm

Remarks: H M C

Remarks: METHANOL

EXPOSURE LIMITS - UNITED KINGDOM

Source	Type	Value
OEL	OEL	266 mg/m3
		200 ppm

Remarks: METHANOL

OEL	STEL	333 mg/m3
		250 ppm

Remarks: Skin Indicative limit value

Remarks: METHANOL

OEL	OEL	13 mg/m3
		3 ppm

Remarks: DIETHANOLAMINE

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Physical State: Liquid	
Property	Value	At Temperature or Pressure
pH	6 - 7	20 °C
BP/BP Range	64 °C	760 mmHg
MP/MP Range	N/A	
Flash Point	13 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	0.98 g/cm3	20 °C
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Chloroformates.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides, Hydrogen iodide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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### 11 - Toxicological Information

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#### SENSITIZATION

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Methyl alcohol may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion can cause: Nausea, headache, and vomiting. Gastrointestinal disturbances. Dizziness. Weakness. Confusion. Drowsiness. Unconsciousness. May cause convulsions. Exposure can cause: CNS depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.  
Skin Absorption: Toxic if absorbed through skin.  
Eye Contact: Causes severe eye irritation.  
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. Toxic if inhaled.  
Ingestion: Toxic if swallowed.

#### TARGET ORGAN INFORMATION

Eyes. Kidneys. Liver. Heart. Blood. Thyroid. Central nervous system.

#### CHRONIC EXPOSURE - TERATOGEN

Result: Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism. Iodine-containing drugs have been associated with fetal goiter.

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### 12 - Ecological Information

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No data available.

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### 13 - Disposal Considerations

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#### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

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### 14 - Transport Information

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#### RID/ADR

UN#: 1230  
Class: 3  
PG: II  
Proper Shipping Name: Methanol solution

IMDG

UN#: 1230  
Class: 3  
PG: II  
Subrisk: 6.1  
Proper Shipping Name: Methanol solution  
Marine Pollutant: No  
Severe Marine Pollutant: No

IATA

UN#: 1230  
Class: 3  
PG: II  
Subrisk: 6.1  
Proper Shipping Name: Methanol solution  
Inhalation Packing Group I: No

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15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F T

Highly Flammable. Toxic.

R-PHRASES: 11 23/24/25 38 39/23/24/25 41 48/22

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Irritating to skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

S-PHRASES: 7 16 24 26 45

Keep container tightly closed. Keep away from sources of ignition - no smoking. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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16 - Other Information

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WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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