



Safety Data Sheet

Revision Date: 14-aug-2013

Version No.: 1

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name/designation: HiPerSolv CHROMANORM Methanol

Product No.: BDH20864 (VWR International)

Substance name.: Methanol

CAS No.: 67-56-1

INDEX no.: 603-001-00-X

other means of identification: Hydroxy methane, Wood alcohol, Carbinol , Methyl alcohol

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For Laboratory use only. Not for Drug, Food or Household use.

Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

VWR International LLC

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Radnor Corporate Center, Building One, Suite 200
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Postal code/city Radnor, PA 19087

country United States of America

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+1-610-386-1700

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Emergency telephone:

Telephone +1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA)
+1-613-966-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

2. Hazards identification

Classification of the substance or mixture

hazard classes and hazard categories	Hazard Statements	classification procedure	remark
Flammable liquid, category 2	H225		
Acute toxicity, category 3, oral	H301		
Acute toxicity, category 3, dermal	H311		
Acute toxicity, category 3, inhalation	H331		
Specific target organ toxicity (single exposure), category 1	H370		

Target Organs: Eyes, Kidney, Liver, Heart, Central nervous system

OSHA hazards: Flammable liquid, Target Organ Effect, Irritant, Reproductive hazard

Label elements:



Signal word

Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P309+P310	IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

Other hazard:

SVHC

No

3. Composition/ Information on ingredients

Molecular formula	H ₃ COH
Molecular weight (g/mol)	32.04 g/mol
CAS No.	67-56-1
EC No	200-659-6
INDEX no.	603-001-00-X

4. First-aid measures**General information:**

IF exposed: Immediately call a POISON CENTER or doctor/ physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation:

Immediately call a POISON CENTER or doctor/ physician. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion:

Immediately call a POISON CENTER or doctor/ physician. Do not induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

5. Firefighting measures**Suitable extinguishing media:**

Water spray, ABC-powder, Carbon dioxide (CO₂), Nitrogen

Extinguishing media which must not be used for safety reasons:

No restriction

Special hazards arising from the substance or mixture:

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide

Advice for firefighters:

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

Additional information:

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Environmental precautions:

Do not allow to enter into surface water or drains. Danger of explosion.

Methods and material for containment and cleaning up:

Spilled product must never be returned to the original container for recycling. Clean contaminated

objects and areas thoroughly observing environmental regulations. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Additional information:

Clear spills immediately.

7. Handling and storage

Precautions for safe handling:

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities:

storage temperature 15-25°C

Keep container tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Keep/Store away from combustible materials.

Specific end use(s):

No data available

8. Exposure controls / Personal protection

Control parameters:

ACGIH TLV- TWA 200 ppm (8 hrs)

NIOSH – 200 ppm TWA; 260 mg/m³ TWA

OSHA PELs – 40 ppm TWA; TWA 260 mg/m³ (8hrs)

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment:

Wear suitable protective clothing. When handling with chemical substances, protective, NIOSH approved clothing must be worn.

Eye / face protection:

Wear safety glasses with side protection.

Skin protection:

When handling with chemical substances, chemical resistant, imperious protective gloves should be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Protective clothing:

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation

Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

9. Physical and chemical properties**Information on basic physical and chemical properties:**

(a) Appearance	
Physical state	liquid
Colour	colourless
(b) Odour	No data available
(c) Odour threshold	No data available

Safety relevant basic data:

(d) pH	7 (20°C)
(e) Melting point/freezing point	-98°C
(f) Initial boiling point and boiling range	64.6°C (1013 hPa)
(g) Flash point	11°C (closed cup)
(h) Evaporation rate	No data available
(i) Flammability (solid, gas)	Highly flammable liquid and vapour.
(j) Upper/lower flammability or explosive limits	
Lower explosion limit (Vol-%)	5.5
Upper explosion limit (Vol-%)	36.5
(k) Vapour pressure	128 hPa (20°C)

(l) Vapour density	1.11 (20°C)
(m) Relative density	0.7918 g/cm ³ (20°C)
(n) Solubility(ies)	
Water solubility (g/l)	soluble
at °C:	20
Soluble (g/l) in	No data available
(o) Partition coefficient: n-octanol/water	-0.77 (20°C)
(p) Auto-ignition temperature	455°C
(q) Decomposition temperature	No data available
(r) Viscosity	
Kinematic viscosity	No data available
Dynamic viscosity	0.614 mPa*s (20°C)
(s) Explosive properties	not applicable
(t) Oxidising properties	not applicable

Other information:

Bulk density	No data available
refraction index	1.33066 (589 nm, 20°C)
dissociation constant	No data available
Surface tension	No data available
Henry constant	No data available

10. Stability and reactivity

Reactivity:

Vapours can form explosive mixtures with air.

Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions:

Formation of potentially explosive mixtures with: Oxidising agent Nitrogen oxides (NO_x) Material, oxygen-rich, oxidizing Nitric acid Chlorine Bromine Exothermic reaction with: Reducing agent Acid. Acid halides. Alkali (lye), concentrated Violent reaction with: Alkali metals Alkaline earth metal
Formation of: Hydrogen

Conditions to avoid:

UV-radiation/sunlight Heating This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Incompatible materials:

light metals, Plastic articles

Hazardous decomposition products:

No data available

Additional information:

Slowly corrodes aluminium and zinc under hydrogen evolution.

11. Toxicological information

Information on toxicological effects

Acute effects:**Acute oral toxicity**

Effective dose	LDLo: 143 mg/kg
species:	human
source	RTECS

Acute dermal toxicity:

Effective dose	LD50: 15800 mg/kg
species:	rabbit

Acute inhalation toxicity:

Effective dose	No data available
species:	No data available

Irritant and corrosive effects:

Primary irritation to the skin:	No data available
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Irritation to eyes:	No data available
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Irritation to respiratory tract:	No data available
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Sensitization

In case of skin contact	Not sensitizing.
After inhalation	Not sensitizing.

Specific target organ toxicity (single exposure)

Causes damage to organs.

Specific target organ toxicity (repeated exposure)
not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity
No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity
No indications of human germ cell mutagenicity exist.

Reproductive toxicity
No indications of human reproductive toxicity exist.

Aspiration hazard
not relevant

Other adverse effects

No data available

Additional information

No data available

12. Ecological information

Ecotoxicity

Acute (short-term) fish toxicity
No data available

Chronic (long-term) fish toxicity
No data available

Acute (short-term) daphnia toxicity
No data available

Chronic (long-term) daphnia toxicity
No data available

Acute (short-term) algae toxicity

No data available

Chronic (long-term) algae toxicity

No data available

13. Disposal considerations

Waste treatment methods

Appropriate disposal / Product

Dispose in accordance with applicable federal, state and local regulations.

Waste code product

07 01 04 (other organic solvents, washing liquids and mother liquors)

Appropriate disposal / Package

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

Additional information

No data available

14. Transport information

Land transport (ADR/RID/DOT-US)

UN-No.	1230
Proper Shipping Name	METHANOL
Class(es)	3
Classification code:	FT1
Packing group	II
Hazard label(s)	3 + 6.1
Marine pollutant	No
Reportable Quantity (RQ)	5000 lbs
Poison Inhalation Hazard:	No

Sea transport (IMDG)

UN-No.	1230
Proper Shipping Name	METHANOL

Class(es) 3
Classification code: FT1
Packing group II
Marine pollutant No
Segregation group

Air transport (ICAO-TI / IATA-DGR)

UN-No. 1230
Proper Shipping Name METHANOL
Class(es) 3
Classification code: FT1
Packing group II

Additional information

No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Hazards

Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the CFR, Part 372. Threshold Values % 1.0

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 311/312 Hazard Categories: Acute Health Hazard - Yes; Chronic Health Hazard - No; Fire Hazard - Yes; Sudden Release of Pressure Hazard - No; Reactive

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: Hazardous Substance (RQs): 5,000 lb

Massachusetts Right To Know Components

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

Pennsylvania Right To Know Components

Methanol

CAS-No.
67-56-1Revision Date
2007-07-01**New Jersey Right To Know Components**

Methanol

CAS-No.
67-56-1Revision Date
2007-07-01**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Safety Assessment

No data available

16. Other information**Relevavant H-phrases (Number and full text)**

H225	Highly flammable liquid and vapour.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs.

WHMIS Classification

B2 Flammable liquid
D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by ingestion
Toxic by skin absorption

Canada WHMIS Hazard Class:

B2 Flammable liquid,
D1A Very Toxic materials
D2A Very Toxic materials
D2B Toxic materials

HMIS Classification

Health hazard: 2
Chronic health hazard: *
Flammability: 3
Physical hazards: 0

NFPA Rating

Health hazard: 1
Fire: 3
Reactivity hazard: 0

SVHC

No

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.