

METHANOL

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

GHS product identifier	: Methanol
Chemical name	: Methanol
Other means of identification	: alcool methylique (french); alcool metilico (italian); carbinol; colonial spirit; columbian spirit; columbian spirits (dot); methanol (dot); metanolo (italian); methyl alcohol; methyl alcohol (dot); methylol; methylalkohol (german); methyl hydroxide; metylowy alkohol (polish); monohydroxy methane; pyroxylic spirit; wood alcohol; wood naphtha; wood spirit

Product type : Liquid.

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

Identified uses

Manufacture of substance

Distribution of substance

Formulation and (re)packing of substances and mixtures

Use as a fuel (Industrial use)

Use as a fuel (Professional use)

Use in Cleaning Agents (Industrial use)

Use in Cleaning Agents (professional use)

Use in laboratories (Industrial use)

Use in laboratories (Professional use)

WasteWater treatment chemicals (Industrial use)

Use in Oil field drilling and production operations (SU 22). (Professional use)

Use in Cleaning Agents and De-icing and anti-icing applications (no spraying) (Consumer use)

Use in Cleaning Agents and De-icing and anti-icing applications (spray application) (Consumer use)

Covers consumer uses in liquid fuels. Indoor.

Cover consumer uses in liquid fuels. Outside

1.2 IDENTIFICATION OF THE COMPANY:

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

FLAMMABLES LIQUIDS- Category 2
ACUTE TOXICITY: ORAL- Category 3
ACUTE TOXICITY: SKIN- Category 3
ACUTE TOXICITY: INHALATION- Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)- Category 1

Hazard pictograms

GHS label elements



Signal word

Hazard Statement
Danger
Toxic flammable liquid and vapor
Toxic if swallowed.
Toxic in contact and skin.
Toxic if inhaled.
Causes damage to organs.

Precautionary statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Use explosion- proof electrical/ventilating/lighting equipment. Keep container tightly closed. Wear protective gloves and eye / face protection.

Response: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water or shower. Call a POISON CENTER or physician.

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

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification: not available

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance/mixture : Substance
Chemical name : Methanol

Other means of identification

: alcool methylique (french); alcool metilico (italian); colonial spirit; columbian spirit; columbian spirits (dot); methanol (dot); metanolo (italian); methyl alcohol; methyl alcohol (dot); methylol; methylalkohol (german); methyl hydroxide; metylowy alkohol (polish); monohydroxy methane; pyroxylic spirit; wood alcohol; wood naphtha; wood spirit

CAS number/other identifiers

CAS number : 67-56-1
EC number : 200-659-6

CAS number	%	Ingredient name
67-56-1	> 99.85	methanol

There are no additional ingredients present which, within in current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURE

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. get medical attention. if necessary, call a poison center or physician.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. if not breathing, if not 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. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention, immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. if necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before use.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim from fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person 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. 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.

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Most important symptoms/ effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Toxic if inhaled

Skin contact : Toxic in contact skin

Ingestion : Toxic if swallowed.

Over-exposure signs/ symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact person treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first- aiders : No action shall be taken involving personal risk or without suitable training. If it 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 it, or wear gloves.

See toxicological information (Section 11)

5. FIRE- FIGHTING MEASURES

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequently explosion. The vapor/gas is heavier than air and will along the ground. 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.

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Hazardous thermal decomposition products

: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide

Special protective actions for fire fighters

: Promptly isolate the scene by removing all persons from the vicinity for fire-fighters of the incident. If there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective

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

6. ACCIDENTAL RELEASE MEASURE

Personal precautions, protective unnecessary equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate through surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled materials. Shut off all ignition sources. No flares, smoking or flames in hazards area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For Emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “ For non-emergency personnel.”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air.)

Methods and materials for containments and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate waste disposal container. Use spark-proof tools and explosion proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry to sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion- proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. NOTE: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Put on appropriate personal protective equipment (See section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (See section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Exposure limits

Ingredient name

ACGIH TLV (United States, 2/2010)

methanol

Absorbed through skin. Notes:

Substances for which there is a Biological

Exposure Index or Indices

STEL: 328 mg/m³ 15 minute(s)

STEL: 250 ppm 15 minute(s)

STEL: 262 mg/m³ 8 hour(s)

TWA: 200 ppm 8 hour(s)

Recommend monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and or the necessity to use respiratory protective equipment.

Appropriate engineering controls: Use only with adequate ventilation. 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.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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Individual protection measures

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 eye wash stations and safety showers are close to the workstation location.

Eye/ face protection: 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 dust. Recommended: full- face mask.

Skin protection

Hand protection: 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. > 8 hours (breakthrough time) : butyl rubber

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

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: 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. Recommended: self-contained breathing apparatus (SCBA)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: Liquid
Color	: Colorless
Odor	: Pungent [Slight]
Odor Threshold	: Not available
pH	: Not available
Melting point/ freezing point	: - 97.8 deg C (-144 deg F)
Boiling Point	: 64.7 deg C (148.5 deg F)
Flash point	: Closed cup: 9.7 deg C (49.5 deg F) Open cup: 15.85 deg C (60.5 deg F)
Burning time	: Not applicable
Burning rate	: Not applicable
Evaporation rate	: 2.1 (butyl acetate= 1)
Flammability(solid, gas)	: Not available
Lower and Upper explosive (flammable) limits	: Lower: 6% Upper: 36.5 %
Vapor pressure	: 16.9 kPa (127 mmHg) [20 °C]
Vapor density	: 1.11 [Air= 1]
Relative density	: 0.79 to 0.8
Solubility	: Not available

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Partition coefficient: n- octanol/water	Not available
Auro-ignition temperature	: 455 °C (851 °F)
Decomposition temperature	: Not available
SADT	: Not available
Viscosity	: Dynamic: 0.544 to 0.59 mPa s (0.544 to 0.59 cP)

10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined

Incompatible materials: Reactive or incompatible with the following materials : oxidizing materials

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Exposure	Dose	Species	Result	Product/Ingredient
4 hours	64000 ppm	Rat	LC50 Inhalation Gas	methanol
4.5 hours	854000 mg/m3	Cat	LC50 Inhalation Vapor	
6 hours	43700 mg/m3	Cat	LC50 Inhalation Vapor	
4 hours	128200 mg/m3	Rat	LC50 Inhalation Vapor	
-	17100 mg/kg	Rabbit	LD50 Dermal	
-	1187 to 2769 mg/kg	Rat	LD50 Oral	
-	868 mg/kg	Man- Male	LDLo Unreported	

Irritation/ Corrosion	: Not available
Conclusion/ Summary	: Skin: Non-Irritating to the skin Eyes: Non- irritating to the eyes
Sensitization	: not available
Conclusion/ Summary	: Skin: Non- sensitizer to skin
Mutagenicity	: Not available
	Conclusion: No mutagenic effect.
Carcinogenicity	: Not available

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Reproductive toxicity

Exposure	Dose	Species	Development Toxin	Fertility	Maternal toxicity	Product / ingredient name
-	Inhalation 0.00133 mg/m ³	Rat-Femle	-	-	Negative	methanol

Teratogenicity

Exposure	Dose	Species	Result	Product / ingredient name
-	0.000133 mg/m ³	Rat	Negative - Inhalation	methanol

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazards: Not available

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, inhalation

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Toxic if inhaled

Skin contact: Toxic in contact with skin.

Ingestion: Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data

Inhalation: No specific data.

Skin contact: No specific data

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

SHORT TERM EXPOSURE

Potential immediate effects: Not available

Potential delayed effects: Not available

LONG TERM EXPOSURE

Potential immediate effects: Not available

Potential delayed effects: Not available

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Potential chronic health effects: Not available

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: not available

12. ECOLOGICAL INFORMATION

Toxicity

Product/Ingredient name	Exposure	Species	Result
methanol	15 hours	Micro-organism	EC50 20000 mg/l fesh water
	48 hours	Daphnia	Acute EC50 > 10000 mg/l fresh water
	48 hours	Crustaceans-Crangon adult	Acute LC50 2500000 ug/L Marine water
	48 hours	Daphnia-Daphnia magna-Neonate - <24 hours	Acute LC50 3289 to 4395 mg/L fresh water
	96 hours macrochirus	Fish-Lepomis	Acute LC50 15400 mg/l fresh water
	96 hours	Algae- Selenastrum capricornutum	Chronic EC50 22000 mg/l fresh water
	3 minutes	Micro-organism-Tubilex tubilex	Chronic EC50 71700 mg/l
	-	Fish-Oryzias latipes	Chronic NOEC 7900mg/l fresh water

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Persistence and degradability

Inoculum	Dose	Result	Test	Product/Ingredient name
Fresh Water Sediment	-	83-91% - 3days	311Anaerobic Biodegration of organic compounds in digested sludge -Method by measurement of Gas production	methanol
Soil	-	53.4%--5 days	Aerobic	
Soil	-	53.4%-5days	Anaerobic	

Biodegradability	Photolysis	Aquatic half-life	Product/ Ingredient name
Readily	50 % ; 17 day(s)	-	methanol

Bioaccumulative potential	BCF	LogPow	Product/ Ingredient name
low	< 10	< 1	methanol

Mobility in Soil

Soil/ water partition coefficient (Koc) : 0.13 to 1

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal method

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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14. TRANSPORT INFORMATION

IATA
UN1230
Methanol



II
No.
Not available.
Passenger and Cargo

Aircraft Quantity
Limitation: 1L
Packaging instructions: 352 Cargo
Aircraft Only
Quantity limitation:
60 L Packaging
instructions: 364
Limited Quantities
Passenger Aircraft
Quantity limitation:
1L Packaging instructions: Y341

IMDG
UN1230
METHANOL



II
No.
Not available.
Emergency schedules
(EmS)
F-E, S-D

Remarks
This product is being
carried under the
scope of Annex II
(MARPOL)

UN
UN1230
METHANOL



II
No.
Not available.

UN number
UN proper
shipping name

Transport Hazard
class(es)

Packing group
Environmental Hazards
Special precautions for user
Additional information

15. REGULATORY INFORMATION

No known specific national and / or regional regulations applicable to this product.
(including its ingredients).

**: Safety, health and
environmental regulations
specific for the
product**

16. OTHER INFORMATION

No previous validation.

1

ADN / ADNR = European Provision concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol / water partition coefficient

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol / water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

Not available.

The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is meant as a guideline for safe use, handling, disposal, storage and transport of products and does not imply any warranty (not implied nor explicitly) or specification. The Supplier shall to the extent permitted by law not be liable for any error or incorrectness in the information contained in this Safety Data Sheet. The information relates exclusively to the specified products, which may not be suitable for combination with other materials or use in processes other than those specifically described here.

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