SIGMA-ALDRICH

1.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 09.07.2012 Print Date 29.04.2013 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifiers Product name	:	Methyl cellulose
	Product Number Brand CAS-No.	: : :	M0512 Sigma 9004-67-5
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet		
	Company	:	Sigma-Aldrich Chemie GmbH Industriestrasse 25 CH-9471 BUCHS
	Telephone Fax E-mail address	:	+41 81-755-2511 +41 81-756-5449 eurtechserv@sial.com
1.4	Emergency telephone number		
	Emergency Phone #	:	+41 81-755-2255 145(CH)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

+41 44-251-5151 (Tox-Zentrum)

2.2 Label elements

Caution - substance not yet tested completely.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

4. FIRST AID MEASURES

4.1 Description of first aid measures

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.

- 4.2 Most important symptoms and effects, both acute and delayed
- **4.3** Indication of any immediate medical attention and special treatment needed no data available

5.	FIREFIGHTING MEASURES				
5.1	Extinguishing media				
	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.				
5.2	Special hazards arising from the substance or mixture Carbon oxides				
5.3	Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.				
5.4	Further information no data available				
6.	ACCIDENTAL RELEASE MEASURES				
6.1	Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapors, mist or gas.				
6.2	Environmental precautions Do not let product enter drains.				
6.3	Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.				
6.4	Reference to other sections For disposal see section 13.				
7.	HANDLING AND STORAGE				
7.1	Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.				
7.2	Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.				
7.3	Specific end uses no data available				
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION				
8.1	Control parameters				
	Components with workplace control parameters				
8.2	Exposure controls				
	Appropriate engineering controls				

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: beige		
b)	Odour	no data available		
c)	Odour Threshold	no data available		
d)	рН	no data available		
e)	Melting point/freezing point	no data available		
f)	Initial boiling point and boiling range	no data available		
g)	Flash point	no data available		
h)	Evaporation rate	no data available		
i)	Flammability (solid, gas)	no data available		
j)	Upper/lower flammability or explosive limits	no data available		
k)	Vapour pressure	no data available		
I)	Vapour density	no data available		
m)	Relative density	no data available		
n)	Water solubility	no data available		
o)	Partition coefficient: n- octanol/water	no data available		
p)	Autoignition temperature	no data available		
q)	Decomposition temperature	no data available		
r)	Viscosity	no data available		
s)	Explosive properties	no data available		
t)	Oxidizing properties	no data available		
Other safety information no data available				

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

9.2

- 10.2 Chemical stability no data available
- 10.3 Possibility of hazardous reactions no data available
- 10.4 Conditions to avoid no data available
- 10.5 Incompatible materials Strong oxidizing agents
- 10.6 Hazardous decomposition products Other decomposition products - no data available

11. **TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Additional Information

RTECS: Not available

12. **ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish

LC50 - Oryzias latipes - > 1.000 mg/l - 48 h

12.2 Persistence and degradability no data available

12.3 Bioaccumulative potential no data available

Sigma - M0512

12.4	Mobility in soil no data available						
12.5	Results of PBT and vPvB assessment no data available						
12.6	Other adverse effects no data available						
13.	DISPOSAL CONSIDERATIONS	DISPOSAL CONSIDERATIONS					
13.1	Waste treatment methods						
	Product Offer surplus and non-recyclable solutions to a licensed disposal company.						
	Contaminated packaging Dispose of as unused product.						
14.	TRANSPORT INFORMATION						
14.1	UN number ADR/RID: -	IMDG: -	IATA: -				
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods						
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -				
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -				
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no				
14.6	Special precautions for user no data available						
15.	REGULATORY INFORMATION						
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.						
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	no data available						
15.2	Chemical Safety Assessment						

no data available

16. OTHER INFORMATION

Further information

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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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.