



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date: 16.04.2024

Version No: 1.04 (replaces version 1.03)

Revision: 16.04.2024

* SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- Trade name: **Chemling MRE-C909**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**
Raw material for plastics
Rubber
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
CAPLINQ Europe BV
Industrieweg 15E
1566JN Assendelft
The Netherlands
+31 20 893 2224
reach@caplinq.com

CAPLINQ Americas Inc.
36927 Schoolcraft Rd
Livonia, MI 48150
USA
Tel: +1 (313) 558-8243

CAPLINQ Corporation
957 Snowshoe Crescent
Orleans ON, K1C 2Y3
Canada
Tel: +1 (613) 482-2215

CAPLINQ Malaysia Sdn Bhd
S-08-07, Persiaran Kelicap Setia Triangle
11900 Bayan Lepas, Penang
Malaysia
Phone: +60 (12) 430 2223
- **1.4 Emergency telephone number:** 1 (800) 343-5636

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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- **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not determined.
- **vPvB:** Not determined.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Dangerous components:**

CAS: 68476-85-7	Petroleum gases, liquefied	50 - 60%
EC number: 270-704-2	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
Index number: 649-202-00-6		
Reg.nr.: 01-2119485911-31-XXXX		
CAS: 109-87-5	dimethoxymethane	40 - 50%
EC number: 203-714-2	Flam. Liq. 2, H225	
Reg.nr.: 01-2119664781-31-XXXX		

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Take affected persons out of danger area and lay down.
In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:** Supply fresh air.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:**

Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.

- **After swallowing:** Rinse out mouth and then drink plenty of water.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:

Carbon monoxide
Carbon dioxide

- **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information**

Cool endangered receptacles with water spray.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
- **CAS: 68476-85-7 Petroleum gases, liquefied**
OEL (Ireland) Short-term value: 2250 mg/m³, 1250 ppm
Long-term value: 1800 mg/m³, 1000 ppm
- **CAS: 109-87-5 dimethoxymethane**
OEL (Ireland) Long-term value: 3100 mg/m³, 1000 ppm
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

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· Hand protection



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Safety glasses

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Aerosol

· Form:

Aerosol

· Colour:

Whitish

· Odour:

Light

· Odour threshold:

Not determined.

· Melting point/freezing point:

84 - 89 °C

· Boiling point or initial boiling point and boiling range

> 42 °C

· Flammability

Not applicable.

· Lower and upper explosion limit

· Lower:

Not applicable.

· Upper:

Not applicable.

· Flash point:

< 0 °C

Not applicable, as aerosol.

· Auto-ignition temperature:

Not determined.

· Decomposition temperature:

Not determined.

· pH

Not determined.

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic:

Not determined.

· Solubility

· water:

Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value)

68476-85-7 Petroleum gases, liquefied 1,09 - 2,8 log Pow (20°C)

109-87-5 dimethoxymethane 0 log Pow (20 °C)

· Vapour pressure:

Not determined.

· Density and/or relative density

· Density at 20 °C:

0.69 g/cm³

· Relative density

Not determined.

· Vapour density

Not determined.

· 9.2 Other information

· Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Oxidising properties

No

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· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

CAS: 68476-85-7 Petroleum gases, liquefied

Inhalative LC50 (2h) 1237 mg/L (mouse)
Read-across to CAS 75-28-5

CAS: 109-87-5 dimethoxymethane

Oral LD50 6423 mg/kg (Rat) (OECD Guideline 423)
Dermal LD50 > 5000 mg/kg (rabbit) (OECD Guideline 402)
Inhalative LC50 57 mg/L (mouse) (OECD Guideline 403, inhalation:vapour)
7h

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

CAS: 68476-85-7 Petroleum gases, liquefied

LC50 (96h) 7.02 - 69.43 mg/L (Daphnia) (QSAR)
24.11 - 147.54 mg/L (fish) (QSAR)

EC50 (96h) 7.71 - 16.5 mg/L (algae) (QSAR)

CAS: 109-87-5 dimethoxymethane

LC50 (96h) > 1000 mg/L (fish) (OECD Guideline 203, Danio rerio)
nominal

EC50 (48h) > 1200 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)
nominal

EC50 (72h) (static) 9120 mg/L (algae) ((Q)SAR; Pseudokirchneriella subcapitata)
Read-across

NOEC (30d) 145.77 mg/L (algae) ((Q)SAR)
150.5 mg/L (Daphnia) ((Q)SAR Daphnia magna)
450.281 mg/L (fish) ((Q)SAR)

IC50 (72h) 20000 - 30000 mg/L (Bacteria) (Protozoa)
nominal

- **12.2 Persistence and degradability**

68476-85-7 Petroleum gases, liquefied 100 % (16d)

- **12.3 Bioaccumulative potential**

109-87-5 dimethoxymethane 0,6 BCF (calculation)

- **12.4 Mobility in soil**

109-87-5 dimethoxymethane 0,7439 log Koc

- **12.5 Results of PBT and vPvB assessment** Not determined.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:** Must be specially treated adhering to official regulations.

- **Uncleaned packaging**

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR/RID/ADN, IMDG, IATA** UN1950

- **14.2 UN proper shipping name**

- **ADR/RID/ADN** 1950 AEROSOLS

- **IMDG** AEROSOLS

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- IATA AEROSOLS, flammable
- 14.3 Transport hazard class(es)
- ADR/RID/ADN



- Class 2 5F Gases.
- Label 2.1

· IMDG, IATA



- Class 2.1 Gases.
 - Label 2.1
 - 14.4 Packing group
 - ADR/RID/ADN, IMDG, IATA Void
 - 14.5 Environmental hazards: Not applicable.
 - 14.6 Special precautions for user Warning: Gases.
 - Hazard identification number (Kemler code): -
 - EMS Number: F-D,S-U
 - Stowage Code SW1 Protected from sources of heat.
SW2 Clear of living quarters.
 - Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.
 - 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
 - Transport/Additional information:
-
- ADR/RID/ADN
 - Tunnel restriction code D
 - UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

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- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
- **Date of previous version:** 03.01.2024
- **Version number of previous version:** 1.03
- **Abbreviations and acronyms:**
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
ASTM: American Society for Testing and Materials
WAF: Water Accommodated Fraction
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
- *** Data compared to the previous version altered.**