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Safety Data Sheet
acc. to OSHA HCS

Printing date 04/16/2024 Version No: 1.04 Reviewed on 04/16/2024

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1 Identification

· **Product identifier**

· **Trade name: Chemlinq MRE-C909**

· **Recommended use:**
Raw material for plastics
Rubber

· **Restrictions on use:** No further relevant information available.

· **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

· **Emergency telephone number:** 1 (800) 343-5636

2 Hazard(s) identification

· **Classification of the substance or mixture**
Flammable Aerosols 1 H222 Extremely flammable aerosol.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02

· **Signal word** Danger
· **Hazard statements**
H222 Extremely flammable aerosol.
· **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.

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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not determined.
· **vPvB:** Not determined.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Dangerous components:**

CAS: 68476-85-7 Petroleum gases, liquefied	50 - 60%
CAS: 109-87-5 dimethoxymethane	40 - 50%

4 First-aid measures

· **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.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **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
· **Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.

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Dispose of the collected material according to regulations.
· **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.

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** Open and handle receptacle with care.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Pressurized 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 on a naked flame or any incandescent material.

· **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 pressurized containers.
· **Information about storage in one common storage facility:** Store away from oxidizing agents.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**

CAS: 68476-85-7 Petroleum gases, liquefied
PEL Long-term value: 1800 mg/m³, 1000 ppm
REL Long-term value: 1800 mg/m³, 1000 ppm
TLV See Appendix F Minimal oxygen content (D, EX)

CAS: 109-87-5 dimethoxymethane
PEL Long-term value: 3100 mg/m³, 1000 ppm
REL Long-term value: 3100 mg/m³, 1000 ppm
TLV Long-term value: 1000 ppm

· **Exposure controls**
· **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 for handling chemicals should be followed.
· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
· **Protection of hands:**



Protective gloves

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

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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 protection:** Safety glasses

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Aerosol
Color:	Whitish
· **Odor:**	Light
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	84 - 89 °C (183.2 - 192.2 °F)
Boiling point/Boiling range:	> 42 °C (> 107.6 °F)
· **Flash point:**	< 0 °C (< 32 °F) Not applicable, as aerosol.
· **Flammability (solid, gaseous):**	Not applicable.
· **Auto igniting:**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	Not applicable.
Upper:	Not applicable.
· **Oxidizing properties**	No
· **Vapor pressure:**	Not determined.
· **Density at 20 °C (68 °F):**	0.69 g/cm³ (5.75805 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):**

68476-85-7	Petroleum gases, liquefied	1,09 - 2,8 log Pow (20°C)
109-87-5	dimethoxymethane	0 log Pow (20 °C)

· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

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· **Solvent content:**
VOC content: 0.00 %

· **Other information** No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.
· **LD/LC50 values that are 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

· **Primary irritant effect:**
· **on the skin:** Based on available data, the classification criteria are not met.
· **on the eye:** Based on available data, the classification criteria are not met.
· **Sensitization:** Based on available data, the classification criteria are not met.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic.
The product can cause inheritable damage.
Suspected of causing genetic defects.
May cause respiratory irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

· **Carcinogenic categories**
· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
· **NTP (National Toxicology Program)**
None of the ingredients is listed.
· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

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12 Ecological information

· **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

· **Persistence and degradability**

68476-85-7 Petroleum gases, liquefied 100 % (16d)
· **Behavior in environmental systems:**

· **Bioaccumulative potential**

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

· **Mobility in soil**

109-87-5 dimethoxymethane 0,7439 log Koc

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Must be specially treated adhering to official regulations.

· **Uncleaned packagings**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
· **DOT, ADR/RID/ADN, IMDG, IATA** UN1950
· **UN proper shipping name**
· **DOT** Aerosols, flammable
· **ADR/RID/ADN** 1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable

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· **Transport hazard class(es)**

· **DOT**



· **Class**	2.1 Gases
· **Label**	2.1

· **ADR/RID/ADN**



· **Class**	2 5F Gases
· **Label**	2.1

· **IMDG, IATA**



· **Class**	2.1 Gases
· **Label**	2.1
· **Packing group**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **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.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**	Not applicable.
· **UN "Model Regulation":**	UN 1950 AEROSOLS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **SARA**
· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.
· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.
· **TSCA (Toxic Substances Control Act) Inventory:**
All components have the value ACTIVE.

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· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

CAS: 68476-85-7 Petroleum gases, liquefied

CAS: 109-87-5 dimethoxymethane

· **New Jersey Special Hazardous Substance List:**

CAS: 68476-85-7 Petroleum gases, liquefied: F4

CAS: 109-87-5 dimethoxymethane: F3, R1

· **Pennsylvania Right-to-Know List:**

CAS: 68476-85-7 Petroleum gases, liquefied

CAS: 109-87-5 dimethoxymethane

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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.

· **Department issuing SDS:**

· **Date of preparation / last revision** 04/16/2024 / 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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Aerosols 1: Aerosols – Category 1

· *** Data compared to the previous version altered.**