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MATERIAL SAFETY DATA SHEET – CHEMLINQ™ MRE-C909

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier: Caplinq Europe BV
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Product Name: Release agent

Material name: MRE C909 Carnauba wax mold release spray

Last revised: June 2019

Chemical family: Vegetable wax

Use: Release Agent for thermoset plastics, rubber & similar materials

SECTION 2. HEALTH HAZARD INFORMATION

| Classification | Category |
|-----------------------------------|----------|
| Skin Corrosion/Irritation | 2 |
| Serious eye damage/Eye irritation | 2 |
| Specific target organ toxicity | 2 |
| Aspiration toxicity | 1 |
| Flammable Aerosols | 1 |

Hazard statements

Extremely flammable aerosol

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

May cause respiratory irritation, drowsiness or dizziness

Causes serious eye irritation

Causes skin irritation

Precautionary Statements

Pressurized container. Do not pierce or burn even after use.

Protect from sunlight. Do not expose to temperature exceeding 50°C / 122°F

Keep away from heat/sparks/open flames/hot surface - No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well ventilated area.

Keep out of reach of children.

Precautionary Statements - Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing. If eye irritation persists, get medical attention.

If on skin: Wash with plenty of soap and water. Call a doctor if you feel unwell. Take off contaminated clothing and wash it before re-use.

If inhaled: Move victim to fresh air and keep him at rest in a position comfortable for breathing.

If swallowed: Immediately call a doctor. Do not induce vomiting.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

Harmful to aquatic life.

Pictograms or Hazard Symbols



SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS # | Weight % |
|-------------------------|------------|----------|
| Carnauba Wax | 8015-86-9 | <1 |
| Oxygenated hydrocarbon | 109-87-5 | 30-50 |
| Liquified Petroleum gas | 68476-85-7 | 40-55 |

SECTION 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Seek medical attention.

Skin Contact: Promptly flush the exposed area with water. Remove contaminated shoes and clothing. Wash thoroughly with soap and water. Seek medical attention.

Inhalation: Move victim to fresh air. Restore and/or support his breathing as required. Keep him warm and quiet. Seek medical attention

Ingestion: Give victim 1 or 2 glasses of milk or water to drink. Contact a physician or a poison control center. Do not induce vomiting. Never give anything by mouth to someone who is unconscious or convulsing. Get medical help.

Note to Physician: Individuals with a history of chronic respiratory or skin disease may be at increased risk from exposure

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media: Use dry chemical, foam, carbon dioxide. Water may be ineffective in extinguishing a fire involving oxygenated hydrocarbon. Use water spray to cool fire exposed containers, to disperse vapors and to protect personnel who are attempting to stop any leaks.

Special firefighting procedures: Fire fighter must wear self-contained breathing apparatus with full face pieces.

Special hazards: This flammable liquid is a dangerous fire hazard and a moderate explosion hazard when exposed to heat flame or oxidizers. Vapors are heavier than air and may travel a considerable distance to the source of ignition and flash back to the original source of the material. Do not cut, weld, heat or drill empty container.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spills, Leaks: Remove leaking container to outside disposal site. Remove all sources of heat and ignition. Provide maximum explosion proof ventilation. Those involved in cleanup need protection against contact with liquid and inhalation of vapors.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Store indoors away from direct sunlight, below 50°C. Do not drop, puncture or incinerate. Do not spray directly into flame. Do not smoke while using. Wash hands before handling food or smoke.

Storage: Store containers away from strong acids, bases and oxidising agents. Store in cool, dry, well ventilated area away from heat, sparks and open flame. Protect containers from physical damage.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit: Provide general and local exhaust ventilation. Ventilation fans and other electrical service must be non-sparking and have an explosion proof design.

Engineering measures: Ground and bond metal containers and equipment to prevent static sparks.

Personal protection: If product is used often use appropriate NIOSH approved respirator or any supplied air respirator with or without a full face piece. Use gloves made of rubber or neoprene, face shield, apron, boots and other appropriate protective clothing. Wear safety glasses or splash goggles to prevent any possibility of contact with the eyes

| Component/Chemical Name | OSHA PEL-TWA | ACGIH TLV-TWA | TLV STEL |
|---------------------------------------|--------------|---------------|----------|
| Carnauba Wax 8015-86-9 | - | - | - |
| Oxygenated hydrocarbon 109-87-5 | 1000ppm | 1000ppm | - |
| Liquified Petroleum gas 68476-85-7 | - | 1000ppm | - |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aerosol, Milky wax solution
Color: Milky white
Odor: Waxy smell

| PROPERTY | VALUE |
|-----------------------------|---|
| pH | Not available |
| Melting point | 84-89 °C |
| Boiling point/Boiling range | >42°C |
| Flash point | <0 °C |
| Evaporation rate | 1.36 |
| Flammability | LEL 1.73 UEL 12.68 |
| Vapor pressure at 25° C | > or equal 3.8 kg/cm ² (aerosol) |
| Vapor density (Air = 1) | 2.3 |
| Specific gravity | 0.86 (liquid) |
| Water Solubility | 15.8% in water |
| Density | 0.69 g/ml (aerosol) |

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid exposure to heat, sparks and open flame and prolonged exposure to sunlight

Incompatibles: This material is incompatible with strong oxidizing agents.

Decomposition products: Burning of this material produces carbon dioxide and/or carbon monoxide.

Hazardous polymerization: It does not undergo hazardous polymerization.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation: Vapors are irritating to the eyes, nose and upper respiratory tract. Exposure to high concentration of the vapor may cause light headedness, incoordination and unconsciousness

Eye Contact: Irritation may cause temporary corneal damage.

Skin Contact: The liquid is irritating to the skin. Prolonged contact may cause dermatitis.

Ingestion: Irritation of the gastrointestinal tract, headache, nausea, vomiting, dizziness, unconsciousness and may be fatal.

Chronic effects: No chronic systemic effects have been reported in humans.

Target organs: Skin, respiratory systems, central nervous system.

Medical conditions: Individuals with a history of chronic respiratory or skin disease may be at increased risk from exposure.

| Component/Chemical Name | ORAL LD 50 | DERMAL LD 50 | INHALATION LD 50 |
|--|---------------------------|----------------------------|-----------------------------------|
| Carnauba Wax 8015-86-9 | Estimated > 5000 mg/kg | - | - |
| Oxygenated hydrocarbon 109-87-5 | 5708 mg/kg (rabbit) | 3013 mg/kg (guinea pig) | 15000ppm (rat) 18000ppm(mouse) |
| Liquified Petroleum gas 68476-85-7 | - | - | LC 50 (rat) > 31 mg/L |

Immediate and Chronic effects

Germ cell mutagenicity: No cause of genetic defects.

Carcinogenicity: Does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

Reproduce toxicity: May damage fertility or unborn child.

Single exposure: May cause respiratory irritation. May cause dizziness.

Repeated exposure: May cause damage to organs through prolonged or repeated exposure

Aspiration hazard: Skin, respiratory systems central nervous system.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not allow to enter drains or waterways. Harmful to aquatic life.

| Chemical Name | Result | Species | Exposure |
|--------------------------------|--|---|----------|
| Oxygenated hydrocarbon | Acute LC 50 = 6990 g/L fresh water | Fish – Pimephales promelas 29 to 31 days – 19.6mm -0.102 g | 96hours |
| Liquified Petroleum gas | Evaporates quickly in contact with water. No acute or chronic impact | | |

Persistence/Degradability

| Chemical Name | Aquatic Half life | Photolysis | Biodegradability |
|--------------------------------|-------------------|--|---|
| Oxygenated hydrocarbon | - | - | At concentration lower than 1/1000 in water, the material shows negative inhibition of oxygen consumption of sludge (accordance with ISO/DIS 8192 Standard) |
| Liquified Petroleum gas | - | Quick oxidation by photo chemical reaction in air | - |



Bioaccumulation

| Chemical Name | Log P _{ow} | BCF | Potential |
|-------------------------|--------------------------------|-----|-----------|
| Oxygenated hydrocarbon | 0.18 | - | Low |
| Liquified Petroleum gas | Not expected to bio accumulate | | |

Mobility

Both Oxygenated Hydrocarbon and Liquefied Petroleum Gas are likely to volatilize rapidly because of high vapor pressure.

Other adverse effects

Not determined.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or water courses

DISPOSAL: Dispose in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

DOT

UN/ID No: UN 1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Packing Group: III

IATA

UN/ID No: UN 1950
Proper Shipping Name: Aerosols, flammable
Hazard Class: 2.1
Packing Group: II

IMDG

UN/ID No: UN 1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Packing Group: III Marine Pollutant N

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.



SECTION 15. REGULATORY INFORMATION

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.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Key to Hazard Statements

| | |
|-----|--|
| R13 | Extremely flammable aerosol |
| R22 | Harmful if swallowed (oral) |
| R21 | Harmful if in contact with skin (dermal) |
| R20 | Harmful if inhaled (gas, vapor, dust, mist) |
| R37 | May causes respiratory irritation, drowsiness or dizziness |
| R36 | Causes serious eye irritation |
| R38 | Causes skin irritation |

Key to Precautionary Statements

| | |
|-----------|---|
| P 251 | Pressurized container. Do not pierce or burn even after use |
| P 410/412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F |
| P 210 | Keep away from heat, sparks/open flames/hot surfaces - NO SMOKING |
| P 280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P 271 | Use only outdoors or in well ventilated area |

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