

SAFETY DATA SHEETS

This SDS packet was issued with item:

077109408

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

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MSDS # 3052

Material Safety Data Sheet

Revision: 3

1. PRODUCT IDENTIFICATION

PRODUCT NAME: EM-1212SF2
PRODUCT CLASS: Resin Emulsion
PRODUCT FAMILY: External Mold Release

PRODUCT DESCRIPTION: Proprietary resin emulsion of polyolefins and fluoropolymer in combination with wetting agents and surfactant in a water vehicle.

2. COMPOSITION INFORMATION

No Hazardous Ingredients

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Description: Off white color aqueous emulsion. It may cause irritation to eyes.
Material is a non-flammable liquid.

HMIS Rating

Health	1
Flammability	0
Reactivity	0

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVER-EXPOSURE:

EYES: May cause temporary irritation.
SKIN: May cause irritation.
INHALATION: May cause headaches.
INGESTION: Minimal toxicity.

4. FIRST AID MEASURES

EYES: Immediately flush with liberal amounts of water for at least 15 minutes. Get prompt medical attention.

SKIN: Wash area with detergent and water.

INHALATION: Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing difficult, give oxygen. Call a physician.

INGESTION: Do not induce vomiting. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Non-Flammable (C.O.C)

EXTINGUISHING MEDIA: Water; Sand; Foam; CO2; Dry Chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Wear NIOSH approved self-contained breathing apparatus with full face piece and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Contain spill. If container is damaged, transfer to another closed lined metal or plastic container. Use absorbent material to collect and contain for salvage or disposal.

7. HANDLING AND STORAGE

Do not consume food, drink or tobacco in areas where they may be contaminated by this material. Wash hands before eating, drinking or smoking.

Indoor storage recommended. Avoid freezing. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: USE IN ADEQUATELY VENTILATED AREAS.

LOCAL EXHAUST: PREFERABLE
MECHANICAL: ACCEPTABLE
SPECIAL: NONE KNOWN TO AXEL PLASTICS

SKIN PROTECTION: GENERALLY NOT REQUIRED. DEPENDING UPON CONDITION OF USE. IMPERVIOUS GLOVES AND APRON RECOMMENDED TO PREVENT SKIN CONTACT.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES.

RESPIRATORY PROTECTION: RESPIRATORY MASK IS NOT REQUIRED FOR PROPERLY VENTILATED AREAS. IF VAPOR OR MIST ACCUMULATES, USE **NIOSH** APPROVED RESPIRATOR.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Off white
ODOR:	Odorless
pH VALUE:	10.5 Min: 9.5 Max: 11.5
BOILING POINT:	200 – 220°F / 93 – 104°C
FLASH POINT:	Non-Flammable (C.O.C)
MELTING POINT:	Not applicable
SPECIFIC GRAVITY @ 25°C:	0.990
VISCOSITY @ 25°C:	< 15 cps
SOLUBILITY IN WATER:	Soluble
PERCENTAGE VOLATILE:	88%
EVAPORATION RATE:	Not applicable

10. STABILITY AND REACTIVITY

STABILITY:	Stable.
INCOMPATIBILITIES:	Avoid freezing.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION:	Carbon dioxide and/or Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATION

The transportation, storage, treatment and disposal of this material must be conducted in compliance with all applicable National and Local regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Resin Emulsion	UN No	: Unregulated
D.O.T. HAZARD CLASS	: Unrestricted	ADR/RID (ROAD/RAIL):	Unregulated
D.O.T. ID NUMBER	:	IMO (OCEAN)	: Unregulated
D.O.T. HAZARD NAME	:	PACKAGING GROUP	: Unregulated
		IATA (AIR)	: Unregulated

15. REGULATORY INFORMATION

All components in this product are on the **TSCA (USA), DSL (Canada), EINECS (Europe), AICS (Australia) and ENCS (Japan)** regulatory lists.

All **MOLD WIZ, CLEAN WIZ & XTEND** products are proprietary, complex mixtures which, according to government regulations, are not required to be registered.

16. OTHER INFORMATION

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2023

Reviewed on 05/03/2023

1 Identification

- **Product identifier**
- **Trade name:** *Meron Plus (AC) powder*
- **Application of the substance / the mixture** *Dental luting cement*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*VOCO GmbH
Anton-Flettner-Str. 1-3
D-27472 Cuxhaven*
- **Information department:** *Scientific department tel. +49 (0)4721-719-0*
- **Emergency telephone number:** *Scientific department tel. +49 (0)4721-719-0*



2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).
- **Additional information:**
*Health effects are based on the unmixed/uncured material.
Under FDA regulations this product is classified as a medical device.
Medical devices are exempt from the labelling provisions of GHS according to the Hazard Communication Standard (HCS).
This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.*
- **Label elements**
- **Hazard pictograms** *Void*
- **Hazard statements** *Void*
- **Other hazards** *Use only for intended scope of application*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

CAS: 65997-18-4	fluoro-aluminosilicate glass  Eye Irritation 2A, H319	50-100%
CAS: 87-69-4	(+)-tartaric acid  Eye Damage 1, H318	≤2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:** *No special measures required.*
- **After inhalation:** *Seek medical treatment in case of complaints.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

(Contd. on page 2)

Safety Data Sheet

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Printing date 05/03/2023

Reviewed on 05/03/2023

Trade name: Meron Plus (AC) powder

(Contd. of page 1)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.
- **Protective Action Criteria for Chemicals**

· PAC-1:

CAS: 87-69-4	(+)-tartaric acid	1.6 mg/m ³
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· PAC-2:

CAS: 87-69-4	(+)-tartaric acid	17 mg/m ³
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· PAC-3:

CAS: 87-69-4	(+)-tartaric acid	100 mg/m ³
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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
For dental use only.
No special precautions are necessary if used correctly.
Observe the instructions for use.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** See storage instructions on package
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.

(Contd. on page 3)

Safety Data Sheet

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Trade name: Meron Plus (AC) powder

(Contd. of page 2)

- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not required.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Solid
Color:	Whitish
Odor:	Characteristic

· **pH-value:** Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Insoluble.

· Viscosity:

Dynamic: Not applicable.
Kinematic: Not applicable.

Solids content: 100.0 %

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

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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:

· Primary irritant effect:

· on the skin:

Testing according to ISO 10993-1/10993-10 showed no skin irritation for this product when fully cured

· on the eye: No irritating effect.

· **Sensitization:** No sensitizing effects known.

(Contd. on page 4)

US

Safety Data Sheet

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Printing date 05/03/2023

Reviewed on 05/03/2023

Trade name: Meron Plus (AC) powder

(Contd. of page 3)

· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **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.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**

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

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**

· **Class** Void

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

(Contd. on page 5)

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Trade name: Meron Plus (AC) powder

(Contd. of page 4)

- | | |
|--|-----------------|
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

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 are listed.

- Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- TSCA (Toxic Substances Control Act):**

One or more substances contained in this material are not listed on the TSCA Inventory.
Contact VOCO for more information.

- Hazardous Air Pollutants**

None of the ingredients is listed.

- Proposition 65**

- Chemicals known to cause cancer:**

None of the ingredients are listed.

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

None of the ingredients are listed

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

None of the ingredients are listed

- Chemicals known to cause developmental toxicity:**

None of the ingredients are listed

- Carcinogenicity categories**

- EPA (Environmental Protection Agency)**

None of the ingredients are listed

- TLV (Threshold Limit Value)**

Contact VOCO for more information.

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

None of the ingredients are listed

16 Other information

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.

- Department issuing SDS:** Scientific department

(Contd. on page 6)

Safety Data Sheet
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Printing date 05/03/2023

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Trade name: Meron Plus (AC) powder

(Contd. of page 5)

- **Contact:** Tel.: +49 (0)4721-719-0
- **Date of preparation / last revision** 05/03/2023
- **Abbreviations and acronyms:**
 - Eye Damage 1: Serious eye damage/eye irritation – Category 1
 - Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

US