SECTION 1. Product identification/preparation/company undertaking

1.1 Product identifier:

Trade name: **PLICAFOL (various packaging sizes)**

Trade number: **03910, 03911**

1.2. Relevant identified uses of the substance or mixture and uses advised against:
No further relevant information available.

Application of the substance / the mixture:
Dental impression placeholder foil

1.3. Details of the supplier of the safety data sheet:
BISICO Bielefelder Dentalsilicone GmbH & Co. KG
Johanneswerkstraße 3
D-33611 Bielefeld
Tel.: +49 521 8016800
Fax: +49 521 8016801
Email: info@Bisico.de
responsible for the Safety Data Sheet: Sebastian Zimmermann

1.4. Emergency telephone number:
BISICO Bielefelder Dentalsilicone GmbH & Co. KG
Tel.: +49 521 8016800 (08:00-16:00 PM)
Fax: +49 521 8016801
S. Zimmermann

SECTION 2. Hazards identification

Emergency overview:
This material is not hazardous by OSHA Hazard Communication Definition.

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008: Void

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: CAUTION!

2.3 Other hazards:

Physical Health Hazards:
Dust may form explosive mixtures with air. Molten Plicafol may cause thermal burns. Irritating fumes may be produced at elevated temperatures.

Physical state: Solid

Color: Translucent to white

Odor: Faint, mild hydrocarbon odor

Odor threshold: No data available

Potential Health Effects:
Routes of exposure: Ingestion, skin contact
Signs and Symptoms of Acute Exposure: Molten prodcut may cause thermal burns. At elevated temperatures, irritating fumes may cause soreness in the nose and throat, coughing may result.

Skin contact: Molten product may cause thermal burns

Inhalation: At elevated temperatures irritating fumes may be produced. Inhalation of such fumes may cause soreness in the nose and throat and coughing. Inhaling Plicafol dust is considered a nuisance.

Eye contact: Mechanical irritation is possible if abraided into a dust form.

Ingestion: Ingestion is unlikely

Chronic Health Effects Summary: No known chronic health effects.

Polyethylene Homopolymer:
Conditions Aggravated by Exposure: No known conditions are aggravated by this material.

OSHA ACGIH:
Carcinogenic

Concentration by Wt/Mol%	Avg.	Min.	Max.
98.0	100.0	0.0	2.0

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

Results of PBT and vPvB assessment:
PBT: not applicable
vPvB: not applicable

SECTION 3. Composition/Information of Ingredients

3.1 Substances:
Chemical Name/Synonyms: Hydrocarbon wax
Chemical family: Hydrocarbon wax
Chemical Formula: -(CH2-CH2)-

3.2 Mixtures:

Additional information:
OSHA ACGIH: Carcinogenic

Concentration by Wt/Mol%	Avg.	Min.	Max.
98.0	100.0	0.0	2.0

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

For the wording of the listed risk phrases refer to section 16.

SECTION 4. First-aid measures

4.1 Description of first aid measures:

general information:

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. For specific information refer to the Emergency Overview in Section of this MSDS.

Inhalation:
If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention.

Eye Contact:
Wash eyes with clean low-pressure water. If irritation persists, seek medical advice.

Skin Contact: If molten material contacts the skin, immediately flush the skin with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel the Plicafol wax from skin. Get medical attention immediately.

Ingestion:
Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persists, seek medical advice.

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. Fire fighting measures

5.1 Extinguishing media:

Small fires: Use dry chemicals, CO2, water spray.
Large fires: Use dry chemicals, CO2, water spray

5.2 Special hazards arising from the substance or mixture:
NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

Flammability classification: The Plicafol wax will burn just like a candle wax. It will ignite by any open flame.

Flash Point/Method: Not applicable

Auto-Ignition Temperature: Not known

Flammable Limits: Lower: Not applicable
Upper: Not applicable

Hazardous Combustion Products: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

Special Conditions to Avoid:
Polyolefin dust particles in the atmosphere are combustible and may be explosive. Keep away from heat, parks, flame and all other ignition sources. If the product is abraided, clean up dust accumulations. Prevent dust accumulations and dust clouds,

5.3 Advice for firefighters:

See 5.2

Protective equipment:
Wear a NIOSH approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Instructions:
Use flooding quantities of water until well after fire is out.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Not required.

6.2 Environmental precautions:
n.a.

6.3 Methods for cleaning up:
Pick up and retain for recycle or disposal.

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.
Reportable Quantities: See Section 15: Regulatory information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling:
No particular precautions needed.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:
Keep container dry. Store away from excessive heat and away from strong oxidizing agents.
Keep container closed to prevent contamination. Maximum shelf life without deterioration is five years if stored between -45°C and 50°C and 50% relative humidity.

7.3 Specific end use(s):
No further relevant information available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters:
Engineering Controls: If user operations generate dust or fumes, ventilate area to prevent accumulation. For the normal use in a laboratory environment, we would not anticipate any dust being formed.

8.2 Exposure controls:
Personal Protection:

Inhalation: None needed except in the case where dust is being generated, in which case, use appropriate respiratory protection where atmosphere exceeds recommended limits (for polyolefins).

Total Dust (PNOC): ACGIH 10mg/M3, OSHA 15 mg/M3.
Respirable Dust(PNOC) ACGIH 3 mg/M3, OSHA 5 mg/M3.

Skin:
Protective clothing such as long sleeves or a lab coat should be worn. When handling heated materials, also be sure to use heat-resistant gloves, boots and face protection.

Eye: Always use safety glasses when working in the laboratory.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance:

Color:	Translucent to white
Odour:	Faint, mild hydrocarbon odor
Boiling Point/Range:	Not applicable
pH:	Not applicable
Vapor Pressure:	Not applicable
Viscosity:	Not applicable
Specific Gravity:	Solid/Liquid Not known Vapor Not applicable
Water solubility:	Insoluble
Octanol/Water Partition Coefficient in Kow:	Specific value not known
Melting/Freezing Point:	Material becomes "sticky" at ~ 130 - 150°F (55-66°C).
Evaporation Rate:	Not applicable

9.2 Other information No further relevant information available.

SECTION 10. Stability and reactivity

10.1. Reactivity:
No further relevant information available.

10.2. Chemical stability:
The product is stable

10.3 Possibility of hazardous reactions:
Reactions with Air and Water: Does not react with air, water or other common materials.

10.4 Conditions to avoid:
Avoid contact with strong oxidizers, excessive heat, sparks or open flame or dust accumulation.

10.5 Incompatible materials:
Chlorine, fuming nitric acid and strong oxidizing agents.

10.6 Hazardous decomposition products:
Not expected to decompose under normal conditions.

SECTION 11. Toxicological information

11.1. Information on toxicological effects:

Summary:
Not considered to be toxic to humans or animals

Skin Effects:
No skin effects are expected from Plicafol contact.

Acute Oral Effects:
Not known

Acute Inhalation Effects:
Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. We would expect that inhalation of Plicafol dust could have similar effects.

Subchronic Effects:
For polyethyelen, subchronic, 50-90 day, feeding studies conducted on rats, dogs, and swine showed no effects from dietary levels of 1 to 20% powdered and shredded polyethylene. IARC has listed polyethylene as a Group 3 substance (not classifiable as to carcinogenicity to humans). Although Plicafol is not polyethylene, we believe it is sufficiently close in composition that one could infer similar effects.

Chronic Effects/Carcinogenicity:
None expected

Reproductive/Development Effects:
No reproductive or developmental effects are expected.

SECTION 12. Ecological information

12.1 Toxicity:
Exotoxicity: Exotoxicity is expected to be low based on the low water solubility of polymers.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: Not expected to occur.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment: **PBT:** Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13. Disposal consideration

13.1. Waste treatment methods:
This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform to all laws.
Recycle to process, if possible.

SECTION 14. Transport information

Proper Shipping Name: Wax

14.1 UN-Number ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class: Void

14.4 Packing group ADR, IMDG, IATA: Void

14.5 Environmental hazards Marine pollutant: No

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": -

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA:
All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component
Listed under TSCA Section

SARA-Section 313 Emissions Reporting:
Component
Reporting Threshold

SARA-Section 311/312:
No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:
Component
Reportable Quantity.

15.2 Chemical safety assessment:

SECTION 16. Other information:

Changes compared with the previous version:

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.

Preparation by:
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