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

1.1. Product identifier

Product form:	Mixture
Product name:	Iso-Pro W - Isoliermittel Wachs - Gips
UFI:	-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:	Manufacturing of dental prosthesis in dental laboratories
Uses advised against:	Do not use outside of the dental laboratory.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:	SILADENT Dr. Böhme & Schöps GmbH
Street / mailbox:	Im Klei 26
Country code. / postal code / city:	DE - 38644 Goslar
Phone:	+49 (0) 53 21 / 37 79 - 0
Fax:	+49 (0) 53 21 / 38 96 32
E-mail / Website:	info@siladent.de / www.siladent.de
Further information obtainable from:	SILADENT Dr. Böhme & Schöps GmbH

1.4 Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH:	+49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. - 4 p.m.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1, H318

Full text of H statements: see section 16.

Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS05

Signal word (CLP):	Danger
Hazard-determining components for labelling:	2-phenoxyethanol
Hazard statements (CLP):	H318 - Causes serious eye damage
Precautionary statements (CLP):	P280 - Wear protective gloves, protective clothing, eye protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor

2.3. Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances:	Not applicable

3.2. Mixtures

Components:

(CAS no) 147170-44-3 (REACH no) 01-2119489410-39-xxxx	Cocamidopropyl betaine Eye Dam. 1, H318 Aquatic Chronic 3, H412 (C > 10 %) Eye Dam. 1, H318 (C > 4 % ≤ 10 %) Eye Irrit. 2, H319	5 - < 10 %
(CAS no) 122-99-6 (EG no) 204-589-7 (Index no) 603-098-00-9 (REACH no) 01-2119488943-21-xxxx	2-phenoxyethanol Acute Tox. 4 (oral), H302 Eye Dam. 1, H318 STOT SE 3, H335 ATE (oral) = 1394 mg/kg	5 - < 10 %
(CAS no) 68891-38-3 (EC no) 500-234-8 (REACH no) 01-2119488639-16-xxxx	Sodium laureth sulfate Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 (C ≥ 10 %) Eye Dam. 1, H318 (C ≥ 5 % < 10 %) Eye Irrit. 2, H319	1 - < 5 %
(CAS no) 68439-57-6 (EG no) 270-407-8 (REACH no) 01-2119513401-57-xxxx	Sodium C14-16 olefin sulfonate Skin Irrit. 2, H315 Eye Dam. 1, H318 (C > 38 %) Eye Dam. 1, H318 (C > 5 % ≤ 38 %) Eye Irrit. 2, H319 (C ≥ 5 %) Skin Irrit. 2, H315	1 - < 5 %

Full text of H statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Call a doctor if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: Take off contaminated clothing. Wash with plenty of soap and water.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

First-aid measures after ingestion: Rinse mouth. Drink water as a precaution.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact: Causes serious eye damage.

Other symptoms/injuries: No additional information available

4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Use extinguishing agents that suit the environment. Dry extinguishing powder. Foam. Carbon dioxide. Water spray.
Unsuitable extinguishing media:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Product is not flammable.
Hazardous decomposition products in case of fire:	Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions:	Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment.
Protection during firefighting:	Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:	Provide adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. Avoid contact with skin and eyes.
For non-emergency personnel	
Emergency procedures:	Evacuate unnecessary personnel.
For emergency responders	
Protective equipment:	Wear personal protective equipment. Use self-contained breathing apparatus.

6.2. Environmental precautions:	Prevent entry to sewers and public waters.
6.3. Methods and material for containment and cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.
6.4. Reference to other sections:	Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:	Provide good ventilation in process area. Wear personal protective clothing. Avoid contact with skin and eyes.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Storage conditions: Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Cocamidopropyl betaine (147170-44-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	44 mg/m³
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	13.04 mg/m³
Long-term - systemic effects, dermal	7.5 mg/kg bodyweight/day
Long-term - systemic effects, oral	7.5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.013 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	14.8 mg/kg dwt
PNEC sediment (marine water)	1.48 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.8 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	3000 mg/l
2-phenoxyethanol (122-99-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	5.7 mg/m³
Long-term - local effects, inhalation	5.7 mg/m³
Long-term - systemic effects, dermal	20.83 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	2.41 mg/m³
Long-term - local effects, inhalation	2.41 mg/m³
Long-term - systemic effects, dermal	10.42 mg/kg bodyweight/day
Long-term - systemic effects, oral	9.23 mg/kg bodyweight/day
Short-term - systemic effects, oral	9.23 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.943 mg/l
PNEC aqua (marine water)	0.094 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	7.237 mg/kg dwt
PNEC sediment (marine water)	0.724 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.31 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	36 mg/l

8.2. Exposure controls

Appropriate engineering controls: Provide local exhaust or general room ventilation to minimize vapour concentrations.

Personal protective equipment

Eye protection: Wear safety glasses (EN 166).

Hand protection:	Wear suitable gloves (EN 374). The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Environmental exposure controls:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Transparent
Odour:	No data available
Melting point/Freezing point:	100 °C
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Not flammable
Lower and upper explosion limit:	No data available
Flash point:	> 130 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	No data available
Solubility:	Water: soluble
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	No data available
Density and/or relative density:	No data available
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2. Other information

Explosive properties:	None
Oxidising properties:	None

SECTION 10: Stability and reactivity

10.1. Reactivity:	No dangerous reactions known under normal conditions of use.
10.2. Chemical stability:	Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.
10.3. Possibility of hazardous reactions:	No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid:	Protect from frost.
10.5. Incompatible materials:	No data available
10.6. Hazardous decomposition products:	No hazardous decomposition products known. In case of fire: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified
Based on available data, the classification criteria are not met

Cocamidopropyl betaine (147170-44-3)	
LD50 oral rat:	2335 mg/kg

2-phenoxyethanol (122-99-6)	
ATE oral:	1394 mg/kg
LD50 oral rat:	1840 mg/kg
LD50 dermal rabbit:	2214 mg/kg
LC50 inhalation rat:	> 1000 mg/l/6 h
Sodium C14-16 olefin sulfonate (68439-57-6)	
LD50 oral rat:	2079 mg/kg
LD50 dermal rabbit:	6300 mg/kg
LC50 inhalation rat:	> 52 mg/l/4h

Skin corrosion/irritation: Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified
Based on available data, the classification criteria are not met

Carcinogenicity: Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure): Not classified
Based on available data, the classification criteria are not met

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

11.2. Information on other hazards

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified
Ecology - general advice: Avoid release to the environment. Prevent entry to sewers and public waters.

Cocamidopropyl betaine (147170-44-3)	
LC50 fish:	1.11 mg/l 96 h, Pimephales promelas
EC50 daphnia:	ca. 1.9 mg/l 48 h, Daphnia magna
EC50 algae:	1.5 mg/l 72 h, Desmodesmus subspicatus
NOEC fish:	0.135 mg/l 100 d, Oncorhynchus mykiss
NOEC daphnia:	0.3 mg/l 21 d, Daphnia magna

NOEC algae:	0.3 mg/l 72 h, Desmodesmus subspicatus
2-phenoxyethanol (122-99-6)	
LC50 fish:	344 mg/l 96 h, Pimephales promelas
EC50 daphnia:	> 500 mg/l 48 h, Daphnia magna
EC50 algae:	> 100 mg/l 72 h, Desmodesmus subspicatus
NOEC fish:	24 mg/l 34 d, Pimephales promelas
NOEC daphnia:	9.43 mg/l 21 d, Daphnia magna
NOEC algae:	46 mg/l 72 h, Desmodesmus subspicatus
Sodium laureth sulfate (68891-38-3)	
LC50 fish:	7.1 mg/l 96 h, Danio rerio
EC50 daphnia:	7.4 mg/l 48 h, Daphnia magna
EC50 algae:	27.7 mg/l 72 h, Desmodesmus subspicatus
NOEC fish:	0.14 mg/l 28 d, Oncorhynchus mykiss
NOEC daphnia:	0.27 mg/l 21 d, Daphnia magna
NOEC algae:	0.95 mg/l 72 h, Desmodesmus subspicatus
Sodium C14-16 olefin sulfonate (68439-57-6)	
LC50 fish:	4.2 mg/l 96 h, Danio rerio
EC50 daphnia:	4.53 mg/l 48 h, Ceriodaphnia dubia
EC50 algae:	1.97 mg/l 72 h, Skeletonema costatum
NOEC daphnia:	6.3 mg/l 21 d, Daphnia magna
NOEC algae:	1.2 mg/l 72 h, Skeletonema costatum

12.2. Persistence and degradability

Cocamidopropyl betaine (147170-44-3)	
Persistence and degradability:	Readily biodegradable.
Biodegradation:	87.2 % 28 d
2-phenoxyethanol (122-99-6)	
Persistence and degradability:	Readily biodegradable.
Biodegradation:	98 % 3 d
Sodium laureth sulfate (68891-38-3)	
Persistence and degradability:	Readily biodegradable.
Biodegradation:	≥ 77 % 28 d
Sodium C14-16 olefin sulfonate (68439-57-6)	
Persistence and degradability:	Readily biodegradable.
Biodegradation:	96 % 28 d

12.3. Bioaccumulative potential

Cocamidopropyl betaine (147170-44-3)	
Log Pow:	4.4 (20 °C)
2-phenoxyethanol (122-99-6)	
Log Pow:	1.2 (23 °C)
Sodium laureth sulfate (68891-38-3)	
Log Pow:	0.3 (23 °C)
Sodium C14-16 olefin sulfonate (68439-57-6)	
Log Pow:	-1.3 (20 °C)

12.4. Mobility in soil: No additional information available

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

12.6. Endocrine disrupting properties: No additional information available

12.7. Other adverse effects: No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations.

Waste disposal recommendations: Treat contaminated packaging like the product itself.

Waste code - used product: The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

SECTION 14: Transport information

14.1. UN number or ID number
ADR, IMDG, IATA: Not applicable

14.2. UN proper shipping name
ADR, IMDG, IATA: Not applicable

14.3. Transport hazard class(es)
ADR, IMDG, IATA: Not applicable

14.4. Packing group
ADR, IMDG, IATA: Not applicable

14.5. Environmental hazards
Dangerous for the environment: No
Marine pollutant: No
Other information: No additional information available

14.6. Special precautions for user: Not applicable

14.7. Maritime transport in bulk according to IMO instruments: Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances.

National regulations

No additional information available

15.2. Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Changes compared to the previous version

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Full text of H- and EUH-statements

H302:	Harmful if swallowed.
H315:	Causes skin irritation.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation
H335:	May cause respiratory irritation.
H412:	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL:	Derived Minimal Effect Level
DNEL:	Derived No-Effect Level
EC50:	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA:	International Air Transport Association
IMDG:	“International Maritime Dangerous Goods Code” for the transport of dangerous goods by sea
LC50:	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50:	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL:	No Observed Effect Concentration/Level
NOAEC/L:	Organisation for Economic Cooperation and Development
NOEC/L:	Persistent, Bioaccumulative and Toxic substance
OECD:	Predicted No-Effect Concentration
PBT:	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
PNEC:	Safety Data Sheet
REACH:	Sewage Treatment Plant
SDB (SDS):	Unique Formula Identifier
STP:	Very Persistent and Very Bioaccumulative
UFI:	European Agreement concerning the International Carriage of Dangerous Goods by Road
vPvB:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
Acute Tox. 4 (oral):	Acute toxicity (oral), Category 4
Aquatic Chronic 3:	Hazardous to the aquatic environment - Chronic Hazard, Category 3
Eye Dam. 1:	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2:	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2:	Skin corrosion/irritation, Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation