

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: INDURENT GEL

Manufacturer: Zhermack S.p.a

SDS Expiry: 14 July 2025

Supplier Details: Henry Schein New Zealand
23 William Pickering Drive, Albany
PO Box 101 140, North Shore, Auckland 0745
Ph. 0800 808 855
www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –
0800POISON/0800764766 (24 Hours)
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020
HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared - May 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

**Safety Data Sheet
INDURENT GEL****Revision nr. 1
Dated 14/07/2020****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Mixture identification:
Product Name: INDURENT GEL
Code: C100700.

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

For professional use only. Catalyst for condensation silicone for dental impression.
Avoid use: in article for supply to, or use by, the general public.

1.3. Details of the supplier of the safety data sheet

Name
Zhermack S.p.a
Via Bovazecchino 100
45021 Badia Polesine (RO)
Italy
tel. +39 0425-597611
fax +39 0425-597689


Competent person responsible for the safety data sheet:
msds@zhermack.com


1.4. Emergency telephone number

UK Emergency number: 999 (24 hours)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

EC regulation criteria 1272/2008 (CLP)

 Warning, Skin Irrit. 2, Causes skin irritation.

 Warning, STOT RE 2, May cause damage to organs (blood) through prolonged or repeated exposure if swallowed.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The Regulation EC 1272/2008, on classification, labelling and packaging of substances and mixtures (CLP), shall not apply to a medical device in the finished state used in direct physical contact with the human body according to art. 1.5, letter d). Therefore the product is exempted from the CLP labeling requirements.

Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H373 May cause damage to organs (blood) through prolonged or repeated exposure if swallowed.

Precautionary statements:

P233 Keep container tightly closed.

P262 Do not get in eyes, on skin, or on clothing.

Safety Data Sheet

INDURENT GEL

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/clothing.

P314 Get medical advice/attention if you feel unwell.

Special Provisions:

EUH208 Contains carvone (ISO); 2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one. May produce an allergic reaction.

Contains

Tetrakis(2-butoxyethyl)orthosilicate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards
















SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	Tetrakis(2-butoxyethyl)orthosilicate	CAS: 18765-38-3 EC: 242-560-0 REACH No.: 01-21207615 33-55-XXXX	 3.9/2 STOT RE 2 H373  3.2/2 Skin Irrit. 2 H315
>= 7% - < 10%	Diocetyl tin oxide	CAS: 870-08-6 EC: 212-791-1 REACH No.: 01-21199712 68-27-XXXX	 3.8/2 STOT SE 2 H371
>= 0.5% - < 1%	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	Index number: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0	 3.1/4/Oral Acute Tox. 4 H302  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Inhal Acute Tox. 4 H332  3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319
>= 0.3% - < 0.5%	carvone (ISO); 2-methyl-5-(prop-1-en- 2-yl)cyclohex-2-en-1-o ne	Index number: 606-148-00-8 CAS: 99-49-0 EC: 202-759-5	 3.4.2/1 Skin Sens. 1 H317  3.1/4/Oral Acute Tox. 4 H302
< 0.1%	methanol	Index number: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 REACH No.: 01-21194333 07-44-XXXX	 3.8/1 STOT SE 1 H370  2.6/2 Flam. Liq. 2 H225  3.1/3/Oral Acute Tox. 3 H301  3.1/3/Dermal Acute Tox. 3 H311  3.1/3/Inhal Acute Tox. 3 H331

SECTION 4: First aid measures

Revision nr. 1

Page n. 2 of 15

Safety Data Sheet

INDURENT GEL

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Safety Data Sheet

INDURENT GEL

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

See section 10.5.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

INDURENT GEL

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
No data available								

Diocetyl tin oxide - CAS: 870-08-6

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
AGW	0.01 mg/m ³	0.002 ppm	8h	0.02 mg/m ³	0.004 ppm	15min		GERMANY

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
AGW	49 mg/m ³	10 ppm	8h	98 mg/m ³	20 ppm	15min		GERMANY
MAK	49 mg/m ³	10 ppm	8h	98 mg/m ³	20 ppm	15min		GERMANY
VME/VLE	49 mg/m ³	10 ppm	8h	98 mg/m ³	20 ppm	15min		SWITZERLA ND
MV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		SLOVENIA
MAK	49 mg/m ³	10 ppm	8h	98 mg/m ³	20 ppm	15min		SWITZERLA ND

Safety Data Sheet

INDURENT GEL

AK	98 mg/m ³		8h	246 mg/m ³		15min		HUNGARY
ESD	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		TURKEY
GVI/KGVI	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		CROATIA
HTP	98 mg/m ³	20 ppm	8h	250 mg/m ³	50 ppm	15min		FINLAND
MAK	98 mg/m ³	20 ppm	8h	200 mg/m ³	40 ppm	15min		AUSTRIA
NDS/NDSch	98 mg/m ³		8h	200 mg/m ³		15min		POLAND
NGV/KGV	50 mg/m ³	10 ppm	8h	246 mg/m ³	50 ppm	15min		SWEDEN
NPEL	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		SLOVAKIA (Slovak Republic)
EU	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm		Skin	
OELV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		IRELAND
RD	50 mg/m ³	10 ppm	8h	100 mg/m ³	20 ppm	15min		LITHUANIA
RV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		LATVIA
TGG	100 mg/m ³		8h	246 mg/m ³		15min		NETHERLANDS
TLV	120 mg/m ³	25 ppm	8h					GREECE
TLV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		ESTONIA
TLV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		MALTA
TLV	50 mg/m ³	10 ppm	8h					NORWAY
TLV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		ROMANIA
TLV	100 mg/m ³	20.7 ppm	8h	200 mg/m ³	41.4 ppm	15min		CZECH REPUBLIC
TLV	98 mg/m ³	20 ppm	8h					DENMARK
TLV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		CYPRUS
TLV	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		BULGARIA
TLV-ACGIH		20 ppm	8h					
VL	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		LUXEMBOURG
VLE	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		PORTUGAL
VLEP	49 mg/m ³	10 ppm	8h	246 mg/m ³	50 ppm	15min		FRANCE
VLEP	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		ITALY

Safety Data Sheet

INDURENT GEL

VLEP	98 mg/m ³	20 ppm	8h	246 mg/m ³	50 ppm	15min		BELGIUM
WEL	123 mg/m ³	25 ppm	8h	246 mg/m ³	50 ppm	15min		UNITED KINGDOM
VLA	98 mg/m ³	20 ppm	8h	245 mg/m ³	50 ppm	15min		SPAIN
ACGIH		20 ppm	8h				A3, BEI - Eye and URT irr	

carvone (ISO); 2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 99-49-0

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
No data available								

methanol - CAS: 67-56-1

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
AGW	270 mg/m ³	200 ppm	8h	1080 mg/m ³	800 ppm	15min	Skin	GERMANY
MAK	130 mg/m ³	100 ppm	8h	260 mg/m ³	200 ppm	15min	Skin	GERMANY
MAK	260 mg/m ³	200 ppm	8h	1040 mg/m ³	800 ppm	15min	Skin	SWITZERLAND
VME/VLE	260 mg/m ³	200 ppm	8h	1040 mg/m ³	800 ppm	15min	Skin	SWITZERLAND
MV	260 mg/m ³	200 ppm	8h	1040 mg/m ³	800 ppm	15min	Skin	SLOVENIA
AK	260 mg/m ³		8h				Skin	HUNGARY
GVI/KGVI	260 mg/m ³	200 ppm	8h				Skin	CROATIA
HTP	270 mg/m ³	200 ppm	8h	330 mg/m ³	250 ppm	15min	Skin	FINLAND
MAK	260 mg/m ³	200 ppm	8h	1040 mg/m ³	800 ppm	15min	Skin	AUSTRIA
NDS/NDSch	100 mg/m ³		8h	300 mg/m ³		15min	Skin	POLAND
NGV/KGV	250 mg/m ³	200 ppm	8h	Ceiling 350 mg/m ³	Ceiling 250 ppm	15min	Skin	SWEDEN
NPEL	260 mg/m ³	200 ppm	8h				Skin	SLOVAKIA (Slovak Republic)
EU	260 mg/m ³	200 ppm	8h				Skin	
OELV	260 mg/m ³	200 ppm	8h				Skin	IRELAND
RD	260 mg/m ³	200 ppm	8h				Skin	LITHUANIA
RV	260 mg/m ³	200 ppm	8h				Skin	LATVIA

Safety Data Sheet

INDURENT GEL

TGG	133 mg/m ³		8h				Skin	NETHERLANDS
TLV	260 mg/m ³	200 ppm	8h	325 mg/m ³	250 ppm	15min		GREECE
TLV	260 mg/m ³	200 ppm	8h				Skin	ESTONIA
TLV	260 mg/m ³	200 ppm	8h				Skin	MALTA
TLV	130 mg/m ³	100 ppm	8h				Skin	NORWAY
TLV	260 mg/m ³	200 ppm	8h				Skin	ROMANIA
TLV	250 mg/m ³	188.5 ppm	8h	1000 mg/m ³	754 ppm	15min	Skin	CZECH REPUBLIC
TLV	260 mg/m ³	200 ppm	8h				Skin	DENMARK
TLV	260 mg/m ³	200 ppm	8h				Skin	CYPRUS
TLV	260 mg/m ³	200 ppm	8h				Skin	BULGARIA
TLV-ACGIH		200 ppm	8h		250 ppm	15min	Skin	
VL	260 mg/m ³	200 ppm	8h				Skin	LUXEMBOURG
VLE	260 mg/m ³	200 ppm	8h				Skin	PORTUGAL
VLEP	260 mg/m ³	200 ppm	8h	1300 mg/m ³	1000 ppm	15min	Skin	FRANCE
VLEP	260 mg/m ³	200 ppm	8h				Skin	ITALY
VLEP	266 mg/m ³	200 ppm	8h	333 mg/m ³	250 ppm	15min	Skin	BELGIUM
WEL	266 mg/m ³	200 ppm	8h	333 mg/m ³	250 ppm	15min	Skin	UNITED KINGDOM
VLA	266 mg/m ³	200 ppm	8h				Skin	SPAIN
ACGIH		200 ppm	8h		250 ppm		Skin, BEI - Headache, eye dam, dizziness, nausea	

DNEL Exposure Limit Values

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

Consumer: 12.5 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 10.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 44 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 12.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 25 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Diocetyl tin oxide - CAS: 870-08-6

Safety Data Sheet
INDURENT GEL

Worker Professional: 0.03 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 0.001 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 0.03 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

methanol - CAS: 67-56-1

Consumer: 8 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 50 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 40 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: Freshwater sediments - Value: 63.6 mg/kg

Target: Marine water sediments - Value: 6.4 mg/kg

Target: Microorganisms in sewage treatments - Value: 463 mg/l

Target: Soil (agricultural) - Value: 0.57 mg/kg

methanol - CAS: 67-56-1

Target: Fresh Water - Value: 154 mg/l

Target: Marine water - Value: 15.4 mg/l

Target: Freshwater sediments - Value: 570.4 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Biological Exposure Index

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Value: 200 mg/g - medium: Creatinine - Biological Indicator: Butossiacetico acid (BAA) in urine - Sampling Period: End of turn - Remark: With hydrolysis

methanol - CAS: 67-56-1

Value: 15 mg/L - Biological Indicator: Methyl alcohol in urine - Sampling Period: End of turn

8.2. Exposure controls**Precautionary measures:**

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles.

Protection for skin:

Wear professional overalls and safety footwear.

Protection for hands:

Permeation resistant gloves A H J in PVA or fluorinated rubber.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Mask with a type AB filter

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

Safety Data Sheet

INDURENT GEL

None
 Appropriate engineering controls:
 None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	Putty,red	--	--
Odour:	mint	--	--
Odour threshold:	Not available	--	--
pH:	Not Relevant	--	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	107 ° C	EN ISO 3679	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	0.92 g/cm ³ (@23°C)	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not available	--	--
Oxidizing properties:	Not available	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid moisture and high temperature.

10.5. Incompatible materials

Safety Data Sheet
INDURENT GEL

Water
Avoid contact with strong oxidizing materials.
Alkalis
Acids

10.6. Hazardous decomposition products

May develop: 2-Butoxyethanol.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Toxicological information of the product:

INDURENT GEL

- a) acute toxicity
Not classified

- b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation
Not classified

- d) respiratory or skin sensitisation
Not classified

- e) germ cell mutagenicity
Not classified

- f) carcinogenicity
Not classified

- g) reproductive toxicity
Not classified

- h) STOT-single exposure
Not classified

- i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
- j) aspiration hazard
Not classified

Toxicological information of the main substances found in the product:

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

- a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (OECD TG 402, MSDS supplier).
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: (OECD TG 401, MSDS supplier).
- b) skin corrosion/irritation:
Species: Rabbit - Skin Irritant - Source: (OECD 404, MSDS supplier).
- c) serious eye damage/irritation:
Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD 405, MSDS supplier).
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Rat - Based on available data, the classification criteria are not met - Source: (OECD 406, Buehler test, MSDS supplier).

Safety Data Sheet
INDURENT GEL

- e) germ cell mutagenicity:
Test: In vitro - Negative - Source: (OECD 471, 490, OECD 473, MSDS supplier).
 - g) reproductive toxicity:
Route: Oral - Species: Rat - Based on available data, the classification criteria are not met - Source: (OECD 422, MSDS supplier).
 - i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat 25 mg/kg - Notes: Target organ: blood. - Positive - Source: (OECD 422, MSDS supplier).
- Diocetyl tin oxide - CAS: 870-08-6
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg - Source: (MSDS supplier)
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (OECD 402, ECHA dossier).
 - d) respiratory or skin sensitisation:
Test: Skin Sensitization - Based on available data, the classification criteria are not met - Source: (LLNA, ECHA dossier).
 - e) germ cell mutagenicity:
Test: In vitro - Species: Salmonella Typhimurium - Negative - Source: (ECHA dossier).
Test: In vivo - Species: Mouse - Negative - Source: (OECD 474, ECHA dossier).
 - i) STOT-repeated exposure:
Route: Oral - Species: Rat - Notes: Target organ: Immune system - Positive - Source: (ECHA dossier).
- carvone (ISO); 2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 99-49-0
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1640 mg/l - Source: (MSDS supplier).

SECTION 12: Ecological information**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.
INDURENT GEL

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 201 mg/l - Duration h: 96h (Danio rerio, MSDS supplier).
Endpoint: EC50 - Species: Daphnia > 90 mg/l - Duration h: 48h (Daphnia magna, MSDS supplier).
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 100 mg/l - Duration h: 21d (Danio rerio, MSDS supplier).
Endpoint: NOEC - Species: Daphnia 100 mg/l - Duration h: 21d (Daphnia magna, MSDS supplier).

Diocetyl tin oxide - CAS: 870-08-6

- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia > 0.21 mg/l - Duration h: 48h (Daphnia magna, Immobilisation Test, MSDS supplier).
Endpoint: LC50 - Species: Fish > 0.09 mg/l - Duration h: 96h (Brachydanio rerio, MSDS supplier).
Endpoint: NOEC - Species: Algae 0.0097 mg/l (OECD 201, ECHA dossier).

12.2. Persistence and degradability

Tetrakis(2-butoxyethyl)orthosilicate - CAS: 18765-38-3

Biodegradability: Readily biodegradable

Diocetyl tin oxide - CAS: 870-08-6

Biodegradability: Non-readily biodegradable

**Safety Data Sheet
INDURENT GEL****12.3. Bioaccumulative potential**

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information**14.1. UN number**

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not available

14.3. Transport hazard class(es)

Not available

14.4. Packing group

Not available

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

Not available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Safety Data Sheet

INDURENT GEL

Restriction 3

Restrictions related to the substances contained:

Restriction 20

Restriction 69

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)

WGK2 - Hazardous for water

Lagerklasse according to TRGS 510:

LGK10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Diocetyl tin oxide.

California Proposition 65

Substance(s) listed under California Proposition 65:

methanol - Listed as reproductive toxicant.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

Diocetyl tin oxide

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H373 May cause damage to organs (blood) through prolonged or repeated exposure if swallowed.

H315 Causes skin irritation.

H371 May cause damage to organs (immune system) if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H370 Causes damage to organs.

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

Safety Data Sheet

INDURENT GEL

Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- ECHA – European Chemical Agency
- GESTIS - Information system on hazardous substances of the German Social Accident Insurance
- IARC – International Agency for Research on Cancer
- IPCS INCHEM – International Programme on Chemical Safety
- ISS – Istituto Superiore di Sanità
- PubChem - open chemistry database at the National Institutes of Health (NIH)

A safety data sheet is not required for this product under article 31 of Regulation 1907/2006/EC. This safety data sheet has been created on a voluntary basis.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- ATE: Acute Toxicity Estimate
- ATEmix: Acute toxicity Estimate (Mixtures)
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CLP: Classification, Labeling, Packaging.
- DNEL: Derived No Effect Level.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- IMDG: International Maritime Code for Dangerous Goods.
- INCI: International Nomenclature of Cosmetic Ingredients.
- KSt: Explosion coefficient.

Safety Data Sheet
INDURENT GEL

LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.