

## Safety Data Sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: C100700, C100720, C100730, C100740, C400798, C400818  
Product name: INDURENT GEL

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

Intended use: For professional use only. Catalyst for condensation silicone.

#### 1.3. Details of the supplier of the safety data sheet

Name: Zhermack S.p.a  
Full address: Via Bovazecchino 100  
District and Country: 45021 Badia Polesine (RO)  
Italy

Tel. +39 0425-597611

Fax +39 0425-597689

e-mail address of the competent person

responsible for the Safety Data Sheet: msds@zhermack.com

#### 1.4. Emergency telephone number

For urgent inquiries refer to: 0039 0425597611

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication:

#### 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 labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

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INDURENT GEL****EUH210**

Safety data sheet available on request.

**EUH208**

Contains: CARVONE (ISO). May produce an allergic reaction.

Precautionary statements: --

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>TRIMETHOXYPROPYLSILANE</b>		
CAS 1067-25-0	$5 \leq x < 10$	Flam. Liq. 3 H226, Skin Irrit. 2 H315
EC 213-926-7		
INDEX -		
Reg. no. 01-2119972314-37-XXXX		
<b>DIOCTYL TIN OXIDE</b>		
CAS 870-08-6	$6,5 \leq x < 10$	STOT SE 2 H371
EC 212-791-1		
INDEX -		
Reg. no. 01-2119971268-27-XXXX		
<b>ETHYL SILICATE</b>		
CAS 78-10-4	$3 \leq x < 5$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335
EC 201-083-8		
INDEX 014-005-00-0		
Reg. no. 01-2119496195-28-XXXX		
<b>CARVONE (ISO)</b>		
CAS 99-49-0	$0,4 \leq x < 0,6$	Acute Tox. 4 H302, Skin Sens. 1 H317
EC 202-759-5		
INDEX 606-148-00-8		
<b>METHANOL</b>		
CAS 67-56-1	$0 \leq x < 0,2$	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC 200-659-6		
INDEX 603-001-00-X		
Reg. no. 01-2119433307-44-XXXX		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**C100700, C100720, C100730, C100740, C400798, C400818  
INDURENT GEL****SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

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INDURENT GEL****6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskus julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZIN Y, PRAC Y I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República I 26; 2012-02-06
ROU	România	Monitorul Oficial al României 44; 2012-01-19

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SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007 Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu Occupational Exposure Limit Values, AF 2011:18 Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC. ACGIH 2018
SVN	Slovenija	
SWE	Sverige	
EU	OEL EU	
	TLV-ACGIH	

**TRIMETHOXYPROPYLSILANE**

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,49	mg/l
Normal value in marine water	0,149	mg/l
Normal value for fresh water sediment	5,6	mg/kg
Normal value for marine water sediment	0,56	mg/kg
Normal value for water, intermittent release	14,9	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,25	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,26 mg/kg/d				
Inhalation	VND	154,17 mg/m3	VND	30,25 mg/m3			VND	123,82 mg/m3
Skin			VND	8,77 mg/kg/d			VND	17,86 mg/kg/d

**DIOCTYL TIN OXIDE**

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0000018	mg/l
Normal value in marine water	0,00000018	mg/l
Normal value for fresh water sediment	0,02798	mg/kg/d
Normal value for marine water sediment	0,002798	mg/kg/d
Normal value for water, intermittent release	0,000018	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,005593	mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,0005 mg/kg/d				
Inhalation			VND	0,0009 mg/m3			VND	0,004 mg/m3
Skin			VND	0,025 mg/kg/d			VND	0,05 mg/kg/d

**ETHYL SILICATE**

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	100			

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TLV	CZE	50		200					
AGW	DEU	12	1,4	12	1,4				
MAK	DEU	86	10	86	10				
TLV	DNK	85	10						
VLA	ESP	87	10						
HTP	FIN	86	10	170	20				
VLEP	FRA	85	10						
TLV	GRC	170	20	255	30				
OEL	NLD	10							
TLV	NOR	85	10					SKIN	
NDS	POL	44							
TLV	ROU	100		200					
MV	SVN	170	20	170	20				
OEL	EU	44	5						
TLV-ACGIH		85	10						
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,19				mg/l	
Normal value in marine water				0,019				mg/l	
Normal value for fresh water sediment				0,83				mg/kg	
Normal value for marine water sediment				0,083				mg/kg	
Normal value for water, intermittent release				10				mg/l	
Normal value of STP microorganisms				4000				mg/l	
Normal value for the terrestrial compartment				0,05				mg/kg	
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation		14 mg/m3	14 mg/m3	14 mg/m3	14 mg/m3			85 mg/m3	85 mg/m3
Skin	VND		3 mg/kg/d	VND	3 mg/kg/d	VND	56 mg/kg/d	VND	56 mg/kg/d
<b>METHANOL</b>									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	50							SKIN
TLV	CZE	250		1000					SKIN
AGW	DEU	270	200	1080	800				SKIN
MAK	DEU	270	200	1080	800				SKIN
TLV	DNK	260	200						
VLA	ESP	266	200						SKIN
HTP	FIN	270	200	330	250				SKIN
VLEP	FRA	260	200	1300	1000				SKIN
WEL	GBR	266	200	333	250				SKIN

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TLV	GRC	260	200	325	250			
GVI	HRV	260	200					SKIN
AK	HUN	260		1040				
VLEP	ITA	260	200					SKIN
OEL	NLD	133	100					SKIN
TLV	NOR	130	100					SKIN
NDS	POL	100		300				
VLE	PRT	260	200					SKIN
TLV	ROU	260	200		5			SKIN
NPHV	SVK	260	200					SKIN
MV	SVN	260	200					SKIN
MAK	SWE	250	200	350	250			SKIN
OEL	EU	260	200					SKIN
TLV-ACGIH		262	200	328	250			
<b>Predicted no-effect concentration - PNEC</b>								
Normal value in fresh water				154		mg/l		
Normal value in marine water				15,4		mg/l		
Normal value for fresh water sediment				570,4		mg/l		
Normal value of STP microorganisms				100		mg/l		
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
		Effects on consumers			Effects on workers			
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local Chronic systemic
Inhalation	VND		50 mg/kg			VND	260 mg/m3	
Skin	VND		8 mg/kg			VND	40 mg/kg	

**Legend:**

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

**HAND PROTECTION**

Protect hands with category III work gloves, class J (recommended material: fluorinated rubber material or equivalent) (see standard EN 374).

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.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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INDURENT GEL****EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	gel	
Colour	red	
Odour	mint	
Odour threshold	Not available	
pH	Not available	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	63,9 °C	
Evaporation Rate	Not available	
Flammability of solids and gases	not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,94 g/cm <sup>3</sup>	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	25 kPa*s	Temperature: 23°C
Explosive properties	Not available	
Oxidising properties	Not available	



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INDURENT GEL****9.2. Other information**

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

The vapours may also form explosive mixtures with the air.

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. Avoid moisture.

**10.5. Incompatible materials**

Avoid contact with strong oxidizing materials.

**10.6. Hazardous decomposition products**

In the event of thermal decomposition or fire, silica, carbon dioxide, traces of incompletely burned carbon compounds, formaldehyde may be released.  
Reacts with water, releasing alcohols.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects****Metabolism, toxicokinetics, mechanism of action and other information**

Information not available

**Information on likely routes of exposure**

Information not available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

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Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

> 20 mg/l (calculated).

LD50 (Oral) of the mixture:

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: CARVONE (ISO).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

TRIMETHOXYPROPYLSILANE

LD50 (Oral) > 5170 mg/kg (OECD 401, rat, dossier ECHA).

LC50 (Inhalation) 22,2 mg/l/4h (OECD 403, rat, dossier ECHA).

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INDURENT GEL****Acute toxicity:**

Dermal: No data available.

**Irritation/Corrosion**

Skin irritation: Irritating (OECD 404, in vivo, rabbit, MSDS supplier).

Eye irritation: Not irritating (OECD 405, in vivo, rabbit, MSDS supplier).

Respiratory or skin Sensitization: Not sensitising (OECD 406, Buehler Test, MSDS supplier).

STOT – Repeated exposure: Negative (MSDS supplier).

CMR effects: Negative (MSDS supplier).

Aspiration toxicity: Not toxic (MSDS supplier).

**DIOCTYL TIN OXIDE**

LD50 (oral) &gt; 2500 mg/kg (rat, SDS supplier).

**Acute toxicity:**

Inhalation: No data available.

Dermal: No data available.

**Irritation/Corrosion**

Skin irritation: Not irritating (SDS supplier).

Eye irritation: Not irritating (SDS supplier).

Respiratory or skin Sensitization: Not sensitising (SDS supplier).

Single/Repeated dose toxicity: May cause damage to immune system by ingestion (single exposure) (SDS supplier).

Genotoxicity: Negative (SDS supplier).

Carcinogenicity: No data available (SDS supplier).

Toxicity to reproduction: No data available (SDS supplier).

Aspiration toxicity: No data available (SDS supplier).

**ETHYL SILICATE**

LD50 (Oral) &gt; 2500 mg/kg (OECD TG 423, rat, MSDS supplier).

LC50 (Inhalation). 16 mg/l/4h (OECD 403, rat, 4h, MSDS supplier).

**Acute toxicity:**

Dermal: no data available.

**Irritation/ Corrosion**

Skin irritation: not irritant (OECD 404, rabbit, SDS supplier).

Eye irritation: not irritant (OECD 405, rabbit, SDS supplier).

Skin/respiratory sensitization: Not sensitizing (OECD 406, Buehler Test, SDS supplier).

STOT - Single exposure: Toxic for single exposure with irritation of the respiratory tract (MSDS supplier).

STOT - Repeated exposure: Not toxic. NOAEL: 10 mg/kg (OECD TG 422, oral, rat, 28 d, MSDS supplier).

STOT - Repeated exposure: Not toxic. LOAEL: 0,43 mg/l (OECD TG 412, mouse, rat, 28 d, MSDS supplier).

Genotoxicity: Negative (SDS supplier).

Carcinogenicity: Negative (SDS supplier).

Toxicity for reproduction: No evidence from tests on animals (SDS supplier).

Aspiration toxicity: Not toxic (SDS supplier).

**ARVONE (ISO)**

LD50 (Oral) 1640 mg/kg (rat, SDS supplier).

**Acute toxicity**

Inhalation: No data available.

Dermal: No data available.

**Corrosion/Irritation**

Skin irritation: No data available.

Eye irritation: No data available.

Skin Sensitization: No data available.

STOT – single/ repeated exposure: No data available.

Genotoxicity: No data available.

Carcinogenicity: No data available.

Toxicity to reproduction: No data available.

Aspiration toxicity: No data available.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

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INDURENT GEL****12.1. Toxicity**

## TRIMETHOXYPROPYLSILANE

LC50 - for Fish

&gt; 746 mg/l/96h (read across, Brachydanio rerio, semi-static, freshwater, dossier ECHA)

EC50 - for Crustacea

&gt; 816 mg/l/48h (EU Method C.2, Daphnia magna, static, freshwater, dossier ECHA)

EC50 - for Algae / Aquatic Plants

&gt; 913 mg/l/72h (EU Method C.3, Scenedesmus subspicatus, static, freshwater, dossier ECHA)

## ETHYL SILICATE

LC50 - for Fish

&gt; 245 mg/l/96h (OECD tg 203, Brachydanio rerio, MSDS supplier).

EC50 - for Crustacea

&gt; 75 mg/l/48h (OECD TG 202, Daphnia magna, MSDS supplier).

EC50 - for Algae / Aquatic Plants

&gt; 100 mg/l/72h (OECD TG 201, Pseudokirchnerella subcapitata, MSDS supplier).

Chronic NOEC for Fish

&gt; 245 mg/l (OECD tg 203, Brachydanio rerio, MSDS supplier).

Chronic NOEC for Crustacea

&gt; 75 mg/l (OECD TG 202, Daphnia magna, MSDS supplier).

Chronic NOEC for Algae / Aquatic Plants

&gt; 100 mg/l (OECD TG 201, Pseudokirchnerella subcapitata, MSDS supplier).

## METHANOL

LC50 - for Fish

&gt; 100 mg/l/96h (Pimephales promelas, static, SDS supplier).

EC50 - for Crustacea

&gt; 10000 mg/l/48h (Daphnia magna, SDS supplier).

## DIOCTYL TIN OXIDE

LC50 - for Fish

&gt; 0,09 mg/l/96h (Brachydanio rerio, MSDS supplier).

EC50 - for Crustacea

&gt; 0,21 mg/l/48h (Daphnia magna, Immobilisation Test, MSDS supplier).

**12.2. Persistence and degradability**

## TRIMETHOXYPROPYLSILANE

NOT rapidly degradable

## ETHYL SILICATE

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

## METHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

## DIOCTYL TIN OXIDE

Degradability: information not available

**12.3. Bioaccumulative potential**

## ETHYL SILICATE

Partition coefficient: n-octanol/water

3,18

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BCF 3,16

METHANOL

Partition coefficient: n-octanol/water -0,77

BCF 0,2

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects**

Information not available

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

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

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**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

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

Information not relevant

**SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

None

Contained substance

Point 20 DIOCTYL TIN OXIDE

Point 69 METHANOL

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

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None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

U.S. State Regulations California Proposition 65

WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**15.2. Chemical safety assessment**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>STOT SE 1</b>	Specific target organ toxicity - single exposure, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>STOT SE 2</b>	Specific target organ toxicity - single exposure, category 2
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H370</b>	Causes damage to organs.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H319</b>	Causes serious eye irritation.

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<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H371</b>	May cause damage to organs.
<b>EUH210</b>	Safety data sheet available on request.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy



**Zhermack S.p.a**

Revision nr. 5

Dated 10/04/2019

**C100700, C100720, C100730, C100740, C400798, C400818  
INDURENT GEL**

Printed on 10/04/2019

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Replaced revision:4 (Dated: 18/03/2019)

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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.

**Changes to previous review:**

The following sections were modified:

08.