

Product INDERMIL®flexifuze™  
 Revision date 10 September 2020  
 Revision 2



## Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

<b>Product name</b>	<b>INDERMIL®flexifuze™</b>
<b>Synonyms, Trade names</b>	No information available.

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

<b>Identified uses</b>	Adhesive. For professional use only.
<b>Uses advised against</b>	No uses advised against are identified.

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

<b>Supplier</b>	Connexicon Medical Ltd Synergy Building Tallaght IT Dublin 24 Ireland Tel: +353 19065620
<b>Contact person</b>	eledwidge@connexiconmedical.com

#### 1.4 Emergency telephone number

<b>Emergency telephone</b>	Emergency Number: +353 87 2835646 9-5pm Monday to Friday
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### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Not classified
Human health	Not classified
Environment	Not classified

#### 2.2 Label elements

<b>Contains</b>	Not applicable
<b>Label in accordance with (EC) no. 1272/2008</b>	No pictogram required
<b>Signal word</b>	No Signal Word
<b>Hazard statements</b>	No hazard statements required
<b>Precautionary statements</b>	No precautionary statements required
<b>EUH statements</b>	EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

#### 2.3 Other hazards

None known.

**Section 3: Composition/identification of ingredients****3.1 Substance**

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Regulation (EC) No 1272/2008	%
tert-butyl-4-methoxyphenol	CAS-No.: 25013-16-5 EC No.: 246-563-8	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Carc. 2 - H351, Repr. 2 - H361, Aquatic Chronic 2 - H411	0.1-0.9%
sulphur dioxide	CAS-No.: 7446-09-5 EC No.: 231-195-2	Skin Corr. 1B - H314, Acute Tox 3 - H331	0.001-0.009%

The full text for all hazard statements are displayed in section 16.

**Composition comments**

The data shown are in accordance with the latest EC Directives.

**Section 4: First aid measures****4.1 Description of first aid measures****General information**

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

**Inhalation**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion**

Get medical attention immediately. Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

**Skin contact**

If adhesive bonds skin, flush with water and seek medical assistance. Do not attempt to force skin apart if bonded. Soak in warm soapy water if possible. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn.

**Eye contact**

Avoid contaminating unaffected eye. Do not force eye open.

If adhesive bonds eyelids, flush with water and seek medical assistance.

**4.2 Most important symptoms and effects, both acute and delayed****General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Inhalation of high concentrations of vapours may irritate the respiratory system.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin. May in some instances cause burns to the skin. Bonds skin in seconds.

**Eye contact**

Prolonged contact may cause redness and/or tearing. Liquid product will bond eyelids. In a dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to the physician**

Treat symptomatically.

**Section 5: Fire-fighting measures****5.1 Extinguishing media****Extinguishing media**

Foam, dry powder, carbon dioxide (CO<sub>2</sub>), water spray. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**

None noted.

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

**Unusual fire & explosion hazards**

No unusual fire or explosion hazards noted.

**Specific hazards**

If heated, harmful vapours may be formed.

**5.3 Advice for firefighters**

<b>Special fire fighting procedures</b>	Avoid breathing fire vapours. Ventilate closed spaces before entering them. Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Keep up-wind to avoid fumes.
<b>Protective equipment for firefighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Read and follow manufacturer's recommendations. Do not touch or walk through spilled material. If necessary evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Prevent further leakage if safe to do so. Avoid discharge into drains.
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**6.3 Methods and material for containment and cleaning up**

<b>Spill clean up methods</b>	Wear appropriate personal protective equipment as specified in Section 8. Ventilate and evacuate the area. Eliminate all ignition sources. Do not use cloths to mop up. Flood with water to complete polymerization and scrape off the floor/surface. Cured material can be disposed of as non-hazardous waste. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash and dry floors/surfaces.
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**6.4 Reference to other sections**

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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**Section 7: Handling and storage****7.1 Precautions for safe handling**

<b>Handling</b>	Avoid spilling, skin and eye contact. Provide good ventilation. Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not use contact lenses.
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**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10).
<b>Storage class</b>	Chemical storage. Recommended storage temperature: 2 - 8 °C.

**7.3 Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage description</b>	Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
sulphur dioxide	OEL	0.5 ppm	1.3 mg/m <sup>3</sup>	1 ppm	2.6 mg/m <sup>3</sup>	IOELV.

**Ingredient comments**

Ireland, Occupational Exposure Limits 2020.

**8.2 Exposure Controls****Protective equipment****Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory equipment**

If ventilation is insufficient, suitable respiratory protection must be provided. Where risk assessment shows air-purifying respirators are appropriate use a full face respirator conforming to EN143, and suitable respirator cartridges as a backup to engineering controls. Type A/organic vapour protective components recommended. ABEK (EN 14387). Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

**Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workplace. Suggested material: (Suitable materials for short-term contact or splashes) Nitrile. Minimum layer thickness: 0.4 mm. Breakthrough time: >480 minutes. Polyethylene or polypropylene gloves are recommended for larger volumes. Do not use PVC, rubber or nylon gloves. Consult manufacturer for specific advice.

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.

**Eye protection**

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

**Other protection**

Wear appropriate clothing to prevent any possibility of skin contact. Select appropriate protective clothing based on chemical resistance data and an assessment of local exposure potential. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist.

**Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Observe normal hygiene standards. Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. Wash promptly if skin becomes contaminated.

**Process conditions**

Ensure that eye flushing systems and safety showers are located close by in the work place.

**Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Irritating.
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	No information available as testing has not been completed.
<b>pH-Value, Diluted solution</b>	No information available as testing has not been completed.
<b>Melting point</b>	No information available as testing has not been completed.
<b>Initial boiling point and boiling range</b>	> 150 °C
<b>Flash point</b>	> 80 °C

<b>Evaporation rate</b>	No information available as testing has not been completed.
<b>Flammability state</b>	The product is not classified as flammable.
<b>Flammability limit - lower(%)</b>	No information available as testing has not been completed.
<b>Flammability limit - upper(%)</b>	No information available as testing has not been completed.
<b>Vapour pressure</b>	No information available as testing has not been completed.
<b>Vapour density (air=1)</b>	No information available as testing has not been completed.
<b>Relative density</b>	No information available as testing has not been completed.
<b>Bulk density</b>	No information available as testing has not been completed.
<b>Solubility</b>	Polymerises in presence of water.
<b>Decomposition temperature</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	No information available as testing has not been completed.
<b>Viscosity</b>	No information available as testing has not been completed.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

## 9.2 Other information

<b>Molecular weight</b>	No information available as testing has not been completed.
<b>Volatile organic compound</b>	No information available as testing has not been completed.
<b>Other information</b>	None noted.

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## Section 10: Stability and reactivity

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### 10.1 Reactivity

<b>Reactivity</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
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### 10.2 Chemical stability

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
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### 10.3 Possibility of hazardous reactions

<b>Hazardous reactions</b>	See section 10.1 for information on hazardous reactions.
<b>Hazardous polymerisation</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
<b>Polymerisation description</b>	Rapid and exothermic.

### 10.4 Conditions to Avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5 Incompatible materials

<b>Materials to avoid</b>	Water, amines, alkalis, alcohols, and glycols.
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### 10.6 Hazardous decomposition products

<b>Hazardous decomposition products</b>	In case of fire, toxic gases (CO, CO <sub>2</sub> , NO <sub>x</sub> ) may be formed.
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## Section 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Toxicological information</b>	Not classified based on available information.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	Product is not classified as an eye irritant.
<b>Skin corrosion/irritation</b>	The product is not classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is not classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is not classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	Inhalation of high concentrations of vapours may irritate the respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. May in some instances cause burns to the skin. Bonds skin in seconds.
<b>Eye contact</b>	Prolonged contact may cause redness and/or tearing. Liquid product will bond eyelids. In a dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect.
<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eye and skin contact, ingestion or inhalation.
<b>Target organs</b>	No target organs specified.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
tert-butyl-4-methoxyphenol	2000.00mg/kg Rat	>2000.00mg/kg Rat	
sulphur dioxide			1260.00ppmV Rat 4 Hours

## Section 12: Ecological information

### 12.1 Toxicity

<b>Acute toxicity - Fish</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Acute toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Fish</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Ecotoxicity</b>	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
<b>Eco toxicological information</b>	No ecological toxicity available on the overall finished product.

### 12.2 Persistence and degradability

<b>Degradability</b>	The product is not expected to be biodegradable.
<b>Biological oxygen demand</b>	No information available as testing has not been completed.
<b>Chemical oxygen demand</b>	No information available as testing has not been completed.

**12.3 Bioaccumulative potential**

<b>Bioaccumulative potential</b>	No information available as testing has not been completed.
<b>Bioaccumulation factor</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.

**12.4 Mobility in soil**

<b>Mobility</b>	No information available as testing has not been completed.
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**12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** The product does not contain any PBT or vPvB substances.

**12.6 Other adverse effects**

<b>Other adverse effects</b>	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
tert-butyl-4-methoxyphenol	LC50 96 Hours 2.20ppm Pimephales promelas (Fat-head Minnow)	EC50 96 Hours 2.30ppm Daphnia magna	

**Section 13: Disposal considerations**

<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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**13.1 Waste treatment methods**

<b>Disposal methods</b>	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.
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**Section 14: Transport information****14.1 UN number**

<b>UN no. (ADR)</b>	Not applicable.
<b>UN no. (IMDG)</b>	Not applicable.
<b>UN no. (IATA)</b>	UN3334

**14.2 UN proper shipping name**

<b>ADR proper shipping name</b>	Not applicable.
<b>IMDG proper shipping name</b>	Not applicable.
<b>IATA proper shipping name</b>	AVIATION REGULATED LIQUID N.O.S. (Cyanoacrylate ester)

**14.3 Transport hazard class(es)**

<b>ADR class</b>	Not applicable.
<b>IMDG class</b>	Not applicable.
<b>IATA class</b>	9

**Transport labels**

**14.4 Packing group**

<b>ADR/RID/ADN packing group</b>	Not applicable.
<b>IMDG packing group</b>	Not applicable.
<b>IATA packing group</b>	III

**14.5 Environmental hazards**

<b>ADR</b>	No
<b>IMDG</b>	No
<b>IATA</b>	No

**14.6 Special precautions for user**

EMS	Not applicable.
Emergency action code	A27 A48
Hazard no. (ADR)	Not applicable.
Tunnel restriction code	Not applicable.

**14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**

Not applicable.

**Additional information**

Additional information	Consumer commodities i.e. materials that are packaged and distributed in a form intended or suitable for retail sale for purposes of personal care or household use and items administered or sold to patients by doctors or medical administrations, must meet the requirements of Packing Instruction Y963 of the IATA Regulations.
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**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Chemical safety assessment	No chemical safety assessment has been carried out.

**Section 16: Other information**

General information	This Safety Data Sheet is in accordance with REACH Annex II, (EC) No 830/2015.
Revision comments	This is a second issue. [3]Information updated. [4]Information updated. [5]Information updated. [6]Information updated. [7]Information updated. [8]Code of practice updated. Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [14]Information updated. [15]Information updated.
Revision date	10 September 2020
Supersedes date	10 May 2018
Revision	2
Safety data sheet status	Approved.

**Hazard statements in full**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer .
H361	Suspected of damaging fertility or the unborn child .
H411	Toxic to aquatic life with long lasting effects.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on

national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.