



## Safety Information Sheet for Medical Devices

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A safety data sheet is not required for this Product. This Safety Information Sheet has been created on a voluntary basis.

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

#### 1.1. Product identifier

3M™ Impregum™ Penta™ Soft Quick Base

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

##### Identified uses

Medical device; refer to Instructions for Use

##### Restrictions on Use

For use only by dental professionals

#### 1.3 Details of the supplier of the safety information sheet for medical devices

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

This product is a medical device as defined in Directive 93/42/EEC (MDD) respectively Regulation (EU) 2017/745 (MDR), which is invasive or used in direct physical contact with the human body, and therefore is exempt from the requirements of classification and labelling according to Regulation (EC) No. 1272/2008 (CLP; Article 1, paragraph 5). Although not required, the classification and label information, as applicable, is provided below.

##### CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Skin Sensitization, Category 1A - Skin Sens. 1A; H317

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

## 2.2. Label elements

### CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

WARNING.

#### Symbols:

GHS07 (Exclamation mark) | GHS09 (Environment) |

#### Pictograms



#### Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
Laurylimidazole	4303-67-7	224-314-4	< 0.8
Mint flavor	90063-97-1	290-058-5	< 0.5

#### HAZARD STATEMENTS:

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P280E	Wear protective gloves.
P273	Avoid release to the environment.

##### Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

##### Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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#### Notes on labelling

H373 not applied based on physical form.

## 2.3. Other hazards

For information on hazards and safe use, please consider the corresponding sections of this document.

### SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EC No.	% by Wt	Classification
Polyether	110531-92-5		50 - 60	Eye Irrit. 2, H319
Fatty acids ester	67701-27-3	266-945-8	10 - 20	Substance not classified as hazardous
Aromatic hydrocarbon	26898-17-9	248-097-0	5 - 20	Aquatic Chronic 1, H410,M=1
Diatomaceous earth (respirable cristobalite fraction 1-<10%) (REACH Reg. No.:01-2119488518-22)	68855-54-9	272-489-0	1 - 10	STOT RE 1, H372
Cristobalite	14464-46-1	238-455-4	1 - 10	STOT RE 1, H372
Sulfoneamide	80-39-7	201-275-1	1 - 5	Acute Tox. 4, H302; Aquatic Chronic 3, H412
Pigment	1345-05-7	215-715-5	< 2	Substance not classified as hazardous
Laurylimidazole	4303-67-7	224-314-4	< 0.8	Aquatic Acute 1, H400,M=100; Aquatic Chronic 1, H410,M=10 Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1A, H317
Mint flavor	90063-97-1	290-058-5	< 0.5	Aquatic Chronic 2, H411 Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SIS

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

##### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

##### Eye contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

##### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Carbon monoxide  
Carbon dioxide.  
Irritant vapours or gases.

**Condition**

During combustion.  
During combustion.  
During combustion.

**5.3. Advice for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SIS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage**

Refer to Instructions for Use (IFU) for more information.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Quartz	14464-46-1	UK HSC	TWA(respirable):0.1 mg/m <sup>3</sup>	
Quartz	68855-54-9	UK HSC	TWA(respirable):0.1 mg/m <sup>3</sup>	

UK HSC : UK Health and Safety Commission  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety information sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**

Use in a well-ventilated area.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety glasses with side shields.

*Applicable Norms/Standards*

Use eye protection conforming to EN 166

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

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

**Physical state**

Solid.

**Colour**

Blue

**Specific Physical Form:**

Paste

**Odor**

Characteristic Odour

**pH**

*No data available.*

**Boiling point/boiling range**

*Not applicable.*

**Melting point**

*Not applicable.*

**Flammability (solid, gas)**

Not classified

**Explosive properties**

Not classified

**Oxidising properties**

Not classified

**Flash point**

Flash point > 93 °C (200 °F)

**Autoignition temperature**

*Not applicable.*

**Flammable Limits(LEL)**

*Not applicable.*

**Flammable Limits(UEL)**

*Not applicable.*

**Relative density**

> 1 [Ref Std: WATER=1]

**Water solubility**

Negligible

**Viscosity**

*No data available.*

**Density**

1 - 1.2 g/cm<sup>3</sup>

**9.2. Other information**

**EU Volatile Organic Compounds**

*No data available.*

**Percent volatile**

*Not applicable.*

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

This material is considered to be non reactive under normal use conditions

**10.2 Chemical stability**

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Strong acids.

Strong bases.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

This product may have a characteristic odour; however, no adverse health effects are anticipated.

#### Skin contact

May be harmful in contact with skin. Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

#### Additional Health Effects:

#### Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE <sub>2,000</sub> - 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE <sub>2,000</sub> - 5,000 mg/kg
Polyether	Dermal	Professional judgement	LD <sub>50</sub> Not applicable
Polyether	Ingestion	Rat	LD <sub>50</sub> > 2,000 mg/kg
Fatty acids ester	Dermal	Rabbit	LD <sub>50</sub> > 2,000 mg/kg
Fatty acids ester	Ingestion	Rat	LD <sub>50</sub> > 2,000 mg/kg
Aromatic hydrocarbon	Dermal	Rabbit	LD <sub>50</sub> > 2,000 mg/kg
Aromatic hydrocarbon	Ingestion	Rat	LD <sub>50</sub> > 10,360 mg/kg
Cristobalite	Dermal		LD <sub>50</sub> estimated to be > 5,000 mg/kg
Cristobalite	Ingestion		LD <sub>50</sub> estimated to be > 5,000 mg/kg
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Dermal	Professional judgement	LD <sub>50</sub> estimated to be > 5,000 mg/kg
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Inhalation-Dust/Mist (4 hours)	Rat	LC <sub>50</sub> > 2.7 mg/l
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Ingestion	Rat	LD <sub>50</sub> > 2,000 mg/kg
Sulfoneamide	Dermal	Rabbit	LD <sub>50</sub> > 5,000 mg/kg
Sulfoneamide	Ingestion	similar compounds	LD <sub>50</sub> estimated to be 300 - 2,000 mg/kg
Pigment	Ingestion	Rat	LD <sub>50</sub> > 15,000 mg/kg
Pigment	Dermal	similar compounds	LD <sub>50</sub> > 1,000 mg/kg
Pigment	Inhalation-Dust/Mist (4 hours)	similar compounds	LC <sub>50</sub> > 2.52 mg/l
Laurylimidazole	Ingestion	Rat	LD <sub>50</sub> 641 mg/kg
Mint flavor	Dermal	Rabbit	LD <sub>50</sub> > 5,000 mg/kg
Mint flavor	Ingestion	Rat	LD <sub>50</sub> 1,240 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Polyether	Rabbit	No significant irritation
Cristobalite	Professional judgement	No significant irritation
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	In vitro data	No significant irritation
Laurylimidazole	Rabbit	Mild irritant
Mint flavor	Rabbit	Mild irritant

### Serious Eye Damage/Irritation

Name	Species	Value
Polyether	Rabbit	Moderate irritant
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Rabbit	Mild irritant
Laurylimidazole	In vitro data	Severe irritant
Mint flavor	In vitro data	Severe irritant

### Skin Sensitisation

Name	Species	Value
Polyether	Guinea pig	Not classified

Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Mouse	Not classified
Laurylimidazole	Mouse	Sensitising
Mint flavor	Guinea pig	Sensitising

### Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
Polyether	In Vitro	Not mutagenic
Cristobalite	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cristobalite	In vivo	Some positive data exist, but the data are not sufficient for classification
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Laurylimidazole	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
Cristobalite	Inhalation	Human and animal	Carcinogenic.
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Inhalation	Human and animal	Carcinogenic.

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

For the component/components, either no data is currently available or the data is not sufficient for classification.

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data is currently available or the data is not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Cristobalite	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days

#### Aspiration Hazard

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SIS for additional toxicological information on this material and/or its components.**

The product was evaluated by a toxicologist to be safe for its intended use.

## SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and

classifications derived from 3M assessments.

### 12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Polyether	110531-92-5		Data not available or insufficient for classification			
Aromatic hydrocarbon	26898-17-9	Water flea	Experimental	48 hours	EC50	>100 mg/l
Aromatic hydrocarbon	26898-17-9	Zebra Fish	Experimental	96 hours	Lethal Level 50%	>100 mg/l
Aromatic hydrocarbon	26898-17-9	Diatom	Experimental	72 hours	NOEC	>100 mg/l
Aromatic hydrocarbon	26898-17-9	Water flea	Experimental	21 days	NOEC	0.03 mg/l
Fatty acids ester	67701-27-3	Green algae	Estimated	72 hours	EC50	>100 mg/l
Fatty acids ester	67701-27-3	Water flea	Estimated	48 hours	EC50	>100 mg/l
Fatty acids ester	67701-27-3	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Fatty acids ester	67701-27-3	Green algae	Estimated	72 hours	NOEC	>100 mg/l
Fatty acids ester	67701-27-3	Water flea	Estimated	21 days	NOEC	>100 mg/l
Cristobalite	14464-46-1		Data not available or insufficient for classification			
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	68855-54-9		Data not available or insufficient for classification			
Sulfoneamide	80-39-7	Crustacea other	Estimated	48 hours	EC50	>=1,000 mg/l
Sulfoneamide	80-39-7	Rainbow trout	Estimated	96 hours	LC50	>=80 mg/l
Pigment	1345-05-7	Fish other	Estimated	96 hours	LC50	>100 mg/l
Pigment	1345-05-7	Water flea	Estimated	48 hours	EC50	970 mg/l
Laurylimidazole	4303-67-7	Green Algae	Experimental	72 hours	EC50	0.00557 mg/l
Laurylimidazole	4303-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Laurylimidazole	4303-67-7	Green algae	Experimental	72 hours	Effect Concentration 10%	0.0021 mg/l
Mint flavor	90063-97-1		Data not available or insufficient for classification			

### 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Polyether	110531-92-5	Data not availbl-insufficient			N/A	
Aromatic hydrocarbon	26898-17-9	Experimental Biodegradation	28 days	BOD	0 % BOD/ThBOD	OECD 301C - MITI test (I)
Fatty acids ester	67701-27-3	Estimated Biodegradation	28 days	BOD	79 % BOD/ThBOD	OECD 301F - Manometric respirometry
Cristobalite	14464-46-1	Data not availbl-insufficient			N/A	
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	68855-54-9	Data not availbl-insufficient			N/A	
Sulfoneamide	80-39-7	Estimated Biodegradation	28 days	BOD	25 % weight	OECD 301C - MITI test (I)

Pigment	1345-05-7	Data not availbl-insufficient			N/A	
Laurylimidazole	4303-67-7	Experimental Biodegradation	28 days	CO2 evolution	2-3 % weight	OECD 301B - Modified sturm or CO2
Mint flavor	90063-97-1	Data not availbl-insufficient			NA	

### 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Polyether	110531-92-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aromatic hydrocarbon	26898-17-9	Experimental BCF-Carp	60 days	Bioaccumulation factor	23000	OECD 305E - Bioaccumulation flow-through fish test
Fatty acids ester	67701-27-3	Estimated Bioconcentration		Bioaccumulation factor	7.4	Other methods
Cristobalite	14464-46-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diatomaceous earth (respirable cristobalite fraction 1-<10%)	68855-54-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sulfoneamide	80-39-7	Estimated Bioconcentration		Log Kow	1.87	Other methods
Pigment	1345-05-7	Estimated BCF-Carp	56 days	Bioaccumulation factor	<217	Other methods
Laurylimidazole	4303-67-7	Estimated Bioconcentration		Bioaccumulation factor	3090	Estimated: Bioconcentration factor
Mint flavor	90063-97-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Refer to Instructions for Use (IFU) for more information.

### EU waste code (product as sold)

180106\* Chemicals consisting of or containing dangerous substances.

## SECTION 14: Transportation information

ADR: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Laurylimidazole, Aromatic hydrocarbon, Mint flavor); 9; III; (-); M7.

IATA: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Laurylimidazole, Aromatic hydrocarbon, Mint flavor); 9; III.

IMDG: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Laurylimidazole, Aromatic hydrocarbon, Mint flavor); 9; III; EMS: FA, SF; Marine Pollutant: Laurylimidazole, Aromatic hydrocarbon, Mint flavor. (ENG) Exemption: For vessels containing a net quantity of 5 l or a net mass of 5 kg or less per single or inner packaging ,

special provision 375 (ADR), exemption per 2.10.2.7 (IMDG) or special provision A197 (IATA) may be applied, if applicable

## SECTION 15: Regulatory information

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

#### Carcinogenicity

Contact the manufacturer for more information

#### Global inventory status

Contact the manufacturer for more information

## SECTION 16: Other information

### List of relevant H statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Revision information:

Revision information not available

The product to which this Safety Information Sheet applies is classified as a medical device according to the EU Medical Device Regulation EU 2017/745. \_x000D\_  
Medical devices which are invasive or used in direct physical contact with the human body are exempt from the requirements of classification and labelling according to Regulation (EC) No. 1272/2008 (CLP; Article 1, paragraph 5). \_x000D\_

The EU Medical Device Regulation does not foresee the use of Safety Data sheets for medical devices which are invasive or used in direct physical contact with the human body, as the safe use of the product is described through the Instructions for Use and /or the labelling for the product. Nevertheless, the 3M Safety Information Sheet is provided as a further service to customers to provide additional toxicology and chemical information on the product. In case of further questions, please contact your 3M representative listed on the Safety Information Sheet.

**3M Ireland Safety Information Sheets are available at [www.3M.com](http://www.3M.com)**