**Product** Jacobi Polyurethane Elegant Finish

Revision date 12 September 2018

Revision



## **Safety Data Sheet (SDS)**

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

#### 1.1 Product identifier

**Product name** Jacobi Polyurethane Elegant Finish

Synonyms, Trade names No information available.

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

**Identified uses** Paint or paint related material. Uses advised against No uses advised against are identified.

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

Supplier FSW Coatings Ltd

> Virginia Co Cavan Ireland

Tel: 353 49854 7209

info@fsw.ie **Contact person** 

#### 1.4 Emergency telephone number

Emergency telephone + 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)

National emergency telephone

Emergency Contact Number + 353 49854 7209 (Between 0900 and 1700 hrs Monday-

number Friday)

# **Section 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards Flam. Liq 3- H226 Asp. Tox - H304 Human health Environment Not classified

#### 2.2 Label elements

Contains Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

> Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C10, aromatics, <1% naphthalene

Label in accordance with (EC) no. 1272/2008





Signal word Danger

H226 Flammable liquid and vapour. **Hazard statements** 

H304 May be fatal if swallowed and enters airways.

**Precautionary statements Prevention** 

P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

## Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

# 2.3 Other hazards

None known.

# **Section 3: Composition/identification of ingredients**

### 3.1 Substance

Not applicable.

## 3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0002		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: EC No.: 919-857-5	Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	10-30%
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS-No.: EC No.: 918-481-9 REACH Reg No.: 01-2119457273-39-XXXX	Asp. Tox - H304	1-10%
1-methoxy-2-propanol monopropylene glycol methyl ether	CAS-No.: 107-98-2 EC No.: 203-539-1	Flam. Liq 3- H226, STOT SE 3 - H336	1-10%
docusate sodium	CAS-No.: 577-11-7 EC No.: 209-406-4 REACH Reg No.: 01-2119491296-29-0000	Skin Irrit.2 - H315, Eye Dam. 1 - H318	0.1-1%
2-ethylhexanoic acid, zirconium salt	CAS-No.: 22464-99-9 EC No.: 245-018-1	Repr. 2 - H361d	0.1-1%
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS-No.: 64742-48-9 EC No.: 919-857-5 REACH Reg No.: 01-2119463258-33-xxxx	STOT SE 3 - H336, Asp. Tox - H304, Flam. Liq 3- H226	0.1-1%
2-butanone oxime ethyl methyl ketoxime ethyl methyl ketone oxime	CAS-No.: 96-29-7 EC No.: 202-496-6	Acute Tox 4 - H312, Skin. Sens 1 - H317, Eye Dam. 1 - H318, Carc. 2 - H351	0.1-1%
Isopropoxyethanol	CAS-No.: 109-59-1 EC No.: 203-685-6 REACH Reg No.: 1-2119494720-35-xxxx	Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Flam. Liq 3- H226	
propane-1,2-diol	CAS-No.: 57-55-6 EC No.: 200-338-0		0.1-1%
cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7 EC No.: 205-250-6	Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412, Eye Irrit.2A - H319, Repr. 2 - H361, Skin. Sens 1 A- H317	0.1-1%
Hydrocarbons, C10, aromatics, <1% naphthalene	CAS-No.: EC No.: 918-811-1 REACH Reg No.: 01-2119463583-34-0000	Aquatic Chronic 2 - H411, Asp. Tox - H304, STOT SE 3 - H336	0.1-1%
nonane	CAS-No.: 111-84-2 EC No.: 203-913-4	Aquatic Chronic 1 - H410, Skin Irrit.2 - H315, Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	0.1-1%
Ethanol	CAS-No.: 64-17-5 EC No.: 200-578-6 REACH Reg No.: 01-2119457610-43	Eye Irrit.2A - H319, Flam. Liq 2- H225	0.1-1%
Naphthalene	CAS-No.: 91-20-3 EC No.: 202-049-5 REACH Reg No.: 01-2119561346-37-XXXX	Acute Tox 4 - H302, Carc. 2 - H351, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
propionic acid	CAS-No.: 79-09-4 EC No.: 201-176-3	Skin Corr. 1B - H314	0.1-1%
octane	CAS-No.: 111-65-9 EC No.: 203-892-1	Aquatic Chronic 1 - H410, Skin Irrit.2 - H315, Asp. Tox - H304, Flam. Liq 2- H225, STOT SE 3 - H336	0.1-1%

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** General first aid, rest, warmth and fresh air.

**Inhalation** Remove the affected person to fresh air, obtain medical attention if symptoms persist.

**Ingestion** Rinse mouth thoroughly. Get medical attention immediately.

Skin contact Remove affected person from source of contamination Remove contaminated clothes and

rinse skin thoroughly with water. Wash skin with soap and water Get medical attention if

symptoms persist.

Eye contact Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes

with plenty of water while lifting the eye lids. Rinse with a gentle stream water for at least

15 minutes. Get prompt medical attention.

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

**General information** No information available.

InhalationInhalation of mist or vapor may cause respiratory tract irritation.IngestionMay cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contactProlonged contact may cause redness, irritation and dry skin.Eye contactProlonged contact may cause redness and/or tearing.

### 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**Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment. Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media None noted.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Unusual fire & explosion hazards

Specific hazards

When heated, toxic and corrosive vapours/gases may be formed

No unusual fire or explosion hazards noted. If heated, harmful vapours may be formed.

### **5.3 Advice for firefighters**

**Special fire fighting procedures** Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires

from safe distance or protected location. Do not scatter spilled material with more water

than needed to fight the fire Do not get water inside container

Protective equipment for firefighters 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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke,

use open fire or other sources of ignition. Make safe all sources of ignition. Avoid contact

with skin and eves.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal

use of product.

#### **6.2 Environmental precautions**

**Environmental precautions** Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled

discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency

or other appropriate regulatory body.

#### 6.3 Methods and material for containment and cleaning up

Spill clean up methods Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with

non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled

container. Wash thoroughly after dealing with a spillage.

#### **6.4 Reference to other sections**

**Reference to other sections** For personal protection, see section 8 For waste disposal, see section 13. See section 1 for

emergency contact.

#### Section 7: Handling and storage

### 7.1 Precautions for safe handling

**Handling** Read and follow manufacturer's recommendations. Do not handle broken packages without

protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Ensure adequate ventilation. Vapours are heavier than air and may spread along floors. Do not eat,

drink or smoke when using the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

upright. Keep locked up and out of reach of children. Avoid storing for very long periods. Keep container tightly sealed when not in use. Bags or containers, which are opened, must be carefully resealed to prevent leakage. Avoid contact with oxidising agents. Store away from acids. Store separate from alkalis. Store in cool dry areas away from direct sunlight or

sources of ignition. Store away form other chemicals.

Storage class No information available.

7.3 Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

**Usage description** 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
titanium dioxide	OEL		10 mg/m <sup>3</sup>			
titanium dioxide	OEL		4 mg/m <sup>3</sup>			
1-methoxy-2-propanol monopropylene glycol methyl ether	OEL	100 ppm	375 mg/m <sup>3</sup>	150 ppm	568 mg/m <sup>3</sup>	
2-butanone oxime ethyl methyl ketoxime ethyl methyl ketone oxime	OEL	3 ppm	10 mg/m <sup>3</sup>	10 ppm	33 mg/m <sup>3</sup>	
Isopropoxyethanol	OEL	25 ppm	106 mg/m <sup>3</sup>			
propane-1,2-diol	OEL	150 ppm	470 mg/m <sup>3</sup>			
propane-1,2-diol	OEL		10 mg/m <sup>3</sup>			
nonane	OEL	200 ppm	1050 mg/m <sup>3</sup>			
Ethanol	OEL			1000 ppm		
Naphthalene	OEL	10 ppm	50 mg/m <sup>3</sup>	15 ppm	75 mg/m <sup>3</sup>	
propionic acid	OEL	10 ppm	31 mg/m <sup>3</sup>	20 ppm	62 mg/m <sup>3</sup>	
octane	OEL	300 ppm	1450 mg/m <sup>3</sup>			

**Ingredient comments** 

Ireland, Occupational Exposure Limits 2018.

### **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 Use type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use

respirators and components tested and approved under appropriate government standards

such as CEN (EU).

**Hand protection** Use suitable protective gloves if there is a risk of skin contact. 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. Nitrile rubber. Break through time: 480 min. Glove thickness: > 0, 33 mm. Chloroprene. Break through time: 480 min. Glove thickness: >

0, 6 mm.

**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** No information available.

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. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or

smoke.

**Process conditions** Keep container tightly sealed when not in use.

### Section 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

AppearanceViscous liquid.ColourWhite opaque.

**Odour** Faint hydrocarbon odour.

Odour threshold - lower No information available.

Odour threshold - upper No information available.

**pH-Value, Conc. Solution** No information available.

pH-Value, Diluted solution No information available.

Melting point May start to solidify at the temperatures below 2°C. This is based on data for the following

ingredient: water.

Initial boiling point and boiling

range

142 °C

**Flash point** Closed cup: 230C

**Evaporation rate** Highest known value: 0.04 (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%

aromatics) Weighted average: 0.02 compared with butyl acetate.

Flammability state No information available.

Flammability limit - lower(%) 0.60

Flammability limit - upper(%) 7.00

Vapour pressure Highest known value: 0.1 to 0.3 kPa (0.8 to 2.3 mm Hg) (at 20°C) (Naphtha (petroleum),

hydrotreated heavy). Weighted average: 0.17 kPa (1.28 mm Hg) (at  $20^{\circ}$ C)

Vapour density (air=1) Highest known value: 4.5 (Air = 1) (Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <

2% aromatics).

**Relative density** 1.4g/cm<sup>3</sup> @ 20.00 °C

**Bulk density** No information available.

**Solubility** No information available.

**Decomposition temperature** No information available.

Partition coefficient; n-

Octanol/Water

No information available.

Auto ignition temperature (°C) Auto ignition temperature Lowest known value: >221°C (>429.8°F) (Hydrocarbons, C14-

C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics).

Viscosity Kinematic (room temperature): >4 cm2/s Kinematic (40°C): >0.21 cm2/s

**Explosive properties** No information available.

Oxidising properties No information available.

9.2 Other information

Molecular weight No information available.

**Volatile organic compound** No information available.

**Other information** None noted.

### **Section 10: Stability and reactivity**

#### 10.1 Reactivity

**Reactivity** Reacts with acids and strong oxidizing agents.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions

For information on hazardous reaction see section 10.1.

Hazardous polymerisation Polymerisation description

Unknown. Unknown.

10.4 Conditions to Avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight. Protect from frost.

10.5 Incompatible materials

Materials to avoid Strong oxidising substances. Strong acids. Do not mix with other chemicals unless listed on

directions.

### 10.6 Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

#### **Section 11: Toxicological information**

# 11.1 Information on toxicological effects

**Toxicological information** No information available.

Acute toxicity (Oral LD50)No information available.Acute toxicity (Dermal LD50)No information available.Acute toxicity (Inhalation LD50)No information available.

**Serious eye damage/irritation** No information available.

**Skin corrosion/irritation**No information available.

Respiratory sensitisation
Skin sensitisation

No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Specific target organ toxicity - Single exposure:** 

**STOT - Single exposure** No information available.

Specific target organ toxicity - Repeated exposure:

**STOT - Repeated exposure**No information available.

Inhalation Inhalation of mist or vapor may cause respiratory tract irritation.

IngestionMay cause discomfort if swallowed. May cause stomach pain or vomiting.Skin contactProlonged contact may cause redness, irritation and dry skin.

**Eye contact** Prolonged contact may cause redness and/or tearing.

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

Routes of entry No information available.

Target organs No target organs specified.

Aspiration hazards: No information available. Reproductive toxicity: No information available.

#### **Section 12: Ecological information**

#### 12.1 Toxicity

Acute toxicity - Fish

Acute toxicity - Aquatic invertebrates

No information available.

Acute toxicity - Aquatic plants

Acute toxicity - Microorganisms

Chronic toxicity - Fish

Chronic toxicity - Aquatic

No information available.

No information available.

No information available.

invertebrates

**Chronic toxicity - Aquatic plants Chronic toxicity - Microorganisms**No information available.
No information available.

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause

long term adverse effects in the aquatic environment.

**Eco toxilogical information** No ecological toxicity available on the overall finished product.

### 12.2 Persistence and degradability

**Degradability** The degradability of the product has not been stated.

**Biological oxygen demand**Chemical oxygen demand
No information available.
No information available.

### 12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

**Bioaccumulation factor**Partition coefficient; nNo information available.

Octanol/Water

#### 12.4 Mobility in soil

**Mobility** No information available.

#### 12.5 Results of PBT and vPvB assessment

 $\textbf{Results of PBT and vPvB assessment} \ \ \textbf{The product does not contain any PBT or vPvB Substances}.$ 

### 12.6 Other adverse effects

Other adverse effects None known.

#### **Section 13: Disposal considerations**

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

#### 13.1 Waste treatment methods

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements, and in

accordance with all local, national and international regulations.

#### **Section 14: Transport information**

### 14.1 UN number

 UN no. (ADR)
 UN1263

 UN no. (IMDG)
 UN1263

 UN no. (IATA)
 UN1263

#### 14.2 UN proper shipping name

ADR proper shipping name IMDG proper shipping name IATA proper shipping name PAINT or PAINT RELATED MATERIAL PAINT or PAINT RELATED MATERIAL

PAINT

#### 14.3 Transport hazard class(es)

ADR class 3
IMDG class 3
IATA class 3

#### **Transport labels**



### 14.4 Packing group

ADR/RID/ADN packing group III
IMDG packing group III
IATA packing group III

### 14.5 Environmental hazards

ADR No IMDG No IATA No

### 14.6 Special precautions for user

**EMS** F-E, S-E **Emergency action code** A3 A72 A192

**Hazard no. (ADR)** 30 **Tunnel restriction code** (D/E)

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

## **Section 15: Regulatory information**

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

# **EU legislation** Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

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. Reach Regulation (EC) No 453/2010. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

**Approved code of practice** 2018 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of

the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

**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 Regulation (EC) No 453/2010.

**Revision comments**Revision date
This is a first issue.
12 September 2018

Revision 1

Safety data sheet status Approved.

#### Hazard statements in full

**EUH066** Repeated exposure may cause skin dryness or cracking.

**H226** Flammable liquid and vapour.

**H304** May be fatal if swallowed and enters airways.

**H336** May cause drowsiness or dizziness.

H315 Causes skin irritation.H318 Causes serious eye damage.

**H361** Suspected of damaging fertility or the unborn child .

H319 Causes serious eye irritation.
H312 Harmful in contact with skin.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer .

H332Harmful if inhaled.H302Harmful if swallowed.H400Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

**H335** May cause respiratory irritation.

**H410** Very toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.
 H360 May damage fertility or the unborn child .
 H314 Causes severe skin burns and eye damage.

#### 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.