

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.01.2017

Version number 2







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

- **1.1 Product identifier**
- **Trade name : Deka Silan**
- **Article number: -----**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation In industrial application : Coating**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier: EPOLAC (Eng.J.Zamlar) LTD**  
*Hamerkava 2 st Ziporit Ind Zone P.O.BOX 747 1710602 ISRAEL*  
[www.epolac.com](http://www.epolac.com) Tel 972-4-6518155 , Fax 972-4-6519151
- **Further information obtainable from: Health & Safety**
- **1.4 Emergency telephone number: 972-4-6518851**

### 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
GHS02
-  Aps Tox. 2 H302 Harmful if swallowed.
-  Eye Irrit. 2 H319 Causes serious irritation to eye.
-  Stot single 3 H336 May cause drowsiness or dizziness.  
GHS07
- **2.2 Labelling elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  GHS02
-  GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:** Isopropyl Alcohol
- **Hazard statements**
- H225 Highly Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H319 Causes serious rritation to eye.
- H336 May cause drowsiness or dizziness.

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### • Precautionary statements

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- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P261 Avoid breathing dust fume/vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P411 Store at temperatures not exceeding 45° c.
- P403+233 Store in a well – ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

• **2.3 Other hazards** : On contact with water carbon dioxide is released .

Flammable liquid.

### • Results of PBT and vPvB assessment

• **PBT**: Not applicable.

• **vPvB**: Not applicable.

## 3 Composition/information on ingredients

### • 3.2 Chemical characterisation: Mixtures

• **Description: Mixture of substances listed below with nonhazardous additions**

Chemical components :		
CAS: 67-63-0 EINECS: 200-661-7 Reg.n : 01-2119457558-25-0000	propan-2-ol; isopropyl alcohol; isopropanol Flam. Liq.2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	88-92 %
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr: -----	Ethanol; ethyl alcohol Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Dma. 2, H318; STOT SE 3, H335	0.5% max

• **Additional information:** Hazardous impurities :  
wording of the listed risk phrases refer to section 16.

## 4 First aid measures

### • 4.1 Description of first aid measures

• **General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• **After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if Symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Move the person away from the contaminated area. Fresh air and rest.

Seek immediate medical advice.

show this sheet to the doctor.

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- **After skin contact:** Use appropriate protective equipment when treating a contaminated person. Immediately remove any clothing soiled by the product.  
Wash with soap and water.  
Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation,) obtain medical attention.  
Show this sheet to the doctor.  
Place contaminated clothing in a sealed bag for disposal.
- **After eye contact:**  
Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) whilst keeping the eyes wide open. If irritation persists, consult a doctor.  
Show this sheet to the doctor.
- **After swallowing:**  
NEVER attempt to induce vomiting. Rinse mouth out with water. Do not give anything to drink.  
If necessary seek medical advice.  
Show this sheet to the doctor.
- **4.2 Most important symptoms and effects, both acute and delayed :** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed :** No further relevant information available.

## 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Water spray, Alcohol-resistant foam, Dry powder , Carbon dioxide (CO<sub>2</sub>) in enclosed spaces.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture :** Carbon monoxide may be evolved if incomplete combustion occurs. Electrostatic discharge may cause fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.  
Wear full protective clothing. Keep adjacent containers cool by spraying with water.
- **Additional information :**
  - Stay upwind.
  - Evacuate the personnel away from the fumes.
  - Do not breathe fumes.
  - Do NOT attempt to fight the fire without suitable protective equipment.
  - In case of fire close by:
  - Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
  - If there is a fire close by and if packaging has not been damaged: Use suitable extinguishers.

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### 6 Accidental release measures

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#### • 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### • 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Vapours from tanks should not be released to atmosphere

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

#### • 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

### 7 Handling and storage

#### • 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### • Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### • Information about fire - and explosion protection: Protect from heat.

Keep ignition sources away - Do not smoke.

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

##### • Storage:

##### • Requirements to be met by storerooms and receptacles: Store in a cool location.

##### • Information about storage in one common storage facility: Not required

##### • Further information about storage conditions:

The floor of the depot should be impermeable and designed to form a water-tight basin.

#### • 7.3 Specific end use(s) No further relevant information available.

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### 8 Exposure controls/personal protection

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• **Additional information about design of technical facilities:** No further data; see item 7.

• **8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** The recommended limits SHOULD NOT be exceeded.

67-63-0 Isopropanol	
TWE	Short-term value: 999 mg/m <sup>3</sup> , 400 ppm
STEL	Short-term value: 1250 mg/m <sup>3</sup> 500 ppm
64-17-5 Ethanol; ethyl alcohol	
VLE	Short-term value: 950 mg/m <sup>3</sup> , 500 ppm

• **8.2 Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:** Ensure good ventilation of the work station.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• **Protection of hands:**

Protective gloves



• **Material of gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• **Eye protection:**

Safety glasses



• **Body protection:** Use chemical resistant one-piece overall with integral hood.

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### 9 Physical and chemical properties

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

• <b>General Information</b>	
• <b>Appearance: Form:</b>	Liquid Clear
• <b>Colour:</b>	colourless
• <b>Odour:</b>	Characteristic
• <b>Odour threshold:</b>	Not determined.
• <b>pH-value at 25 °C</b>	Not applicable (reacts with water).
• <b>Change in condition</b>	
• <b>Melting point/Melting range:</b>	Not applicable
• <b>Boiling point/Boiling range:</b>	95 °C
• <b>Flash point:</b>	17 °C
• <b>Flammability (solid, gaseous):</b>	Not applicable.
• <b>Ignition temperature:</b>	425 °C
• <b>Decomposition temperature:</b>	Not determined.
• <b>Self-igniting:</b>	Product is not selfignirig.
• <b>Danger of explosion:</b> air/vapour	Product is not explosive. However, formation of explosive mixtures are possible.
• <b>Explosion limits:</b>	
• <b>Lower :</b>	2 Vol %
• <b>Upper :</b>	12.0 Vol %
• <b>Vapour pressure at 20 °C:</b>	60.2 hPa, 25 °C
• <b>Density at 25 °C :</b>	0.87 g/cm <sup>3</sup>
• <b>Relative density :</b>	Not determined.
• <b>Vapour density :</b>	Not determined.
• <b>Evaporation rate Not determined:</b>	Not determined.
• <b>Solubility in / Miscibility: water:</b>	Not miscible or difficult to mix.
• <b>Partition coefficient (n-octanol/water):</b>	Not determined.
• <b>Viscosity:</b>	
• <b>Dynamic at 25°C:</b>	2.1 mPas, 25 °C
• <b>Kinematic:</b>	Not determined
• <b>Solvent content:</b>	
• <b>Organic solvents:</b>	92 %
• <b>Solids content :</b>	4 %
• <b>9.2 Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications
- **10.3 Possibility of hazardous reactions :** No dangerous reactions known..
- **10.4 Conditions to avoid :** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicological information

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#### 11.1 Information on toxicological effects

##### Acute toxicity

Harmful in contact with skin or if inhaled.

1330-20-7 xylene		
Oral	LD 50	> 2,000 mg/kg, rat,
Inhalative	LD 50	20 mg/l, 8 h, rat,
Dermal	LD50/4 h	> 2,000 mg/kg,
64-17-5 Ethanol; ethyl alcohol		
Oral	LD 50	0,039 mg/l (Mouse, 4 h)
Inhalative	LC 50	20000 mg/l (Rat, 10 h)

##### Primary irritant effect:

##### Skin corrosion/irritation

Causes skin irritation.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

#### 12.1 Toxicity

• **Aquatic toxicity:** No further relevant information available.

• **12.2 Persistence and degradability** No further relevant information available.

• **12.3 Behavior in environmental systems :**

• **12.4 Bioaccumulative potential** No further relevant information available.

• **12.5 Mobility in soil** No further relevant information available.

• **Additional ecological information:**

• **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

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• **13.1 Waste treatment methods**

• **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• **Uncleaned packaging:**


• **Recommendation:**

Disposal must be made according to official regulations.

Disposal of contents must be in whole and tightly closed packages/ contains.

Contents must be disposed to authorized site for hazardous waste treatment.

### 14 Transport information

• <b>14.1 UN Number</b>	
• <b>ADR, IMDG, IATA</b>	UN 1993 Paints
• <b>14.2 Proper shipping name (Technical Name)</b>	
• <b>ADR,</b>	FLAMMABLE LIQUID, N.O.S. (ETHYLBENZENE, XYLENES TOLUENE,)
• <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (ETHYLBENZENE, XYLENES, TOLUENE)
• <b>IATA</b>	Flammable liquid, n.o.s. (Ethylbenzene, Xylenes, Toluene)
• <b>ADR, IMDG, IATA</b>	
• <b>Class</b>	3 Flammable liquids.
• <b>label</b>	 3
• <b>14.4 Packing group</b>	
• <b>ADR, IMDG, IATA</b>	III
• <b>14.5 Environmental hazards:</b>	
• <b>Marine pollutant (environmentally hazardous mark) :</b>	NO
• <b>14.6 Special precautions for user Warning:</b>	Flammable liquids.
• <b>Hazard Identification number:</b>	3
• <b>EmS (Emergency schedule) :</b>	F-E, <u>S-E</u>
• <b>Stowage Category :</b>	B
• <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable
• <b>Transport /Additional information</b>	EAC : 3YE
• <b>ADR</b>	
• <b>Limited quantities (LQ)</b>	1L
• <b>Excepted quantities (EQ)</b>	Code : E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• <b>Transport category</b>	2
• <b>Tunnel restriction code</b>	D/E
• <b>IMDG</b>	
• <b>Limited quantities (LQ)</b>	1L
• <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• <b>UN "Model Regulation":</b>	UN 1993 Paints FLAMMABLE LIQUID, N.O.S. (IPA) 3 II

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### 15 Regulatory information

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- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS07
- **Signal word** Danger
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All information contained in the present sheet is based on the manufacturer data. 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 regulation.

- **Relevant phrases**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed
H312+H332	Harmful if contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

- **Department issuing MSDS:** Product safety department.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances