

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 07.10.2015

Version number 1

Revision: 07.10.2015

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

- **Date of compilation:** 13.01.2014
  - **1.1 Product identifier**
    - **Trade name:** SELVOL™ Polyvinyl Alcohol E 575
    - **CAS Number:**  
25213-24-5
    - **EINECS/ELINCS/NLP Number:**  
Polymer
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - **Application of the substance / the preparation:**  
Chemicals for various applications  
Use in polymer manufacturing  
Preparation of adhesives  
Paper industry  
Food industry
  - **1.3 Details of the supplier of the safety data sheet**
    - **Manufacturer / Supplier:**  
Sekisui Specialty Chemicals Europe S.L.  
Carretera Nacional 340 Km. 1157  
Apartado 1388
  - **43080 Tarragona, SPAIN**
  - **E-mail address of the competent person responsible for the Safety Data Sheet:** MSDS@sekisui-sc.com
  - **Informing department:** Sales / Technics
  - **1.4 Emergency telephone number:** +1 703 527 3887
- Tel. +34 (9775) 49899  
Fax +34 (9775) 44982

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
The substance is not classified as hazardous according to the CLP regulation.
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:** void
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
- **Additional information:**  
Safety data sheet available on request.
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.1 Chemical characterisation: Substances**
  - **CAS No. Designation:**  
25213-24-5 Vinyl acetate-vinyl alcohol copolymer
  - **Identification number(s):**
  - **EC number:** Polymer

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**· Dangerous components:**

CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44-XXXX	Methanol  T R23/24/25-39/23/24/25;  F R11  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370	< 3%
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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact:**  
Rinse with plenty of water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
Use eye protection.  
Remove contact lenses, if present and easy to do.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do NOT induce vomiting.  
Seek medical treatment.
- **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.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Formation of toxic gases is possible during heating or in case of fire.  
Risk of dust explosion.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information**  
Cool endangered containers with water spray jet.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Do not breathe dust.  
Product forms slippery surface when combined with water.
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Collect mechanically.  
Prevent formation of dust.  
Send for recovery or disposal in suitable containers.  
Dispose of the material collected according to regulations.
- **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 information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
Any deposit of dust which cannot be avoided must be removed regularly.  
Do not breathe dust.  
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**  
Dust can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
  - **Requirements to be met by storerooms and containers:**  
Observe all local and national regulations for storage of water polluting products.  
Store in the original container.
  - **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.  
Do not store together with strong acids.
  - **Further information about storage conditions:**  
Store container in a well ventilated position.  
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

Observe all workplace limits for dust.

**67-56-1 Methanol**

WEL (Great Britain)	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk
IOELV (European Union)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin

· **DNELs**

**67-56-1 Methanol**

Dermal	DNEL acute / short-term exposure - local effects	5445 mg/cm <sup>2</sup> (alga (chlamydomonas reinhardii))
	DNEL acute / short-term exposure - systemic effect	8 mg/kg bw/d (general population) 40 mg/kg bw/d (worker)
	DNEL long-term exposure - systemic effects	8 mg/kg bw/d (general population) 40 mg/kg bw/d (worker)
Inhalative	DNEL acute / short-term exposure - systemic effect	260 mg/m <sup>3</sup> (worker)
	DNEL long-term exposure - local effects	260 mg/m <sup>3</sup> (worker)
	DNEL long-term exposure - systemic effects	260 mg/m <sup>3</sup> (worker)

· **PNECs**

**67-56-1 Methanol**

PNEC	20.8 mg/l (aqua (freshwater)) (Assessment factor 10)
	1540 mg/l (aqua (intermittent releases)) (Assessment factor 10)
	2.08 mg/l (aqua (marine water)) (Assessment factor 100)
	77 mg/kg (sediment (freshwater))
	7.7 mg/kg (sediment (marine water))
	3.18 mg/kg (soil)
	100 mg/l (STP (sewage treatment plant)) (Assessment factor 10)

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin protection.

Do not eat, drink or smoke while working.

Avoid contact with the eyes and skin.

Do not breathe dust.

· **Breathing equipment:**

Use breathing protection in case of dust formation.

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· **Recommended filter device for short term use:** Filter P2

· **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

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Sensibilisation by the components in the glove materials is possible.  
Check the permeability prior to each renewed use of the glove.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Body protection must be chosen depending on activity and possible exposure.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Powder
· <b>Colour:</b>	off white
· <b>Smell:</b>	odourless
· <b>Odour threshold:</b>	not determined

· **pH-value (40 g/l) :** 5.0 - 7.0

· **Change in condition**

· <b>Melting point/Melting range:</b>	230 - 240 °C
· <b>Boiling point/Boiling range:</b>	not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** combustible

· **Ignition temperature:** not determined

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.  
Formation of ignitable/explosive dust/air mixtures possible.

· **Critical values for explosion:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Oxidising properties** not classified as oxidising

· **Vapor pressure:** Not applicable.

· <b>Density at 20 °C:</b>	1.27 - 1.31 g/cm <sup>3</sup>
· <b>Relative density at 20 °C</b>	1.27 - 1.31 (H <sub>2</sub> O = 1)
· <b>Vapour density (AIR = 1):</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

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- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with Water:</b>  | soluble                                    |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| dynamic:  | Not applicable.                            |
| kinematic:  | Not applicable.                            |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
Avoid impact, friction, heat, sparks, electrostatic charges.  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Risk of dust explosion.  
Reacts with oxidizing agents  
Reacts with peroxides  
Reacts with various metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong oxidizing agents  
Peroxides  
Perchlorates  
Strong acids  
Metals
- **10.6 Hazardous decomposition products:**  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Poisonous gases/vapours

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 5000 mg/kg (rat)
Inhalative	LC50/1 h	> 20 mg/l (rat)

**67-56-1 Methanol**

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalative	LC50/4 h	6.4 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Dust particles may mechanically irritate the skin.
- **Serious eye damage/irritation**  
Short time, reversible irritating effect.  
Dust particles may mechanically irritate the eye.

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- **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.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

EC50/48 h	8.3 mg/l (water flea (daphnia magna))
LC50/96 h	10 mg/l (bluegill (lepomis macrochirus))
	40 mg/l (fathead minnow (pimephales promelas))

#### 67-56-1 Methanol

EC50/48 h	24500 mg/l (daphnia)
LC50/96 h	15400 mg/l (bluegill (lepomis macrochirus))

- **12.2 Persistence and degradability** Easily biodegradable
- **Degree of elimination:**  
Elimination rate: 90 %  
OECD 302 B (Zahn-Wellens test)
- **12.3 Bioaccumulative potential** Low bioaccumulation potential
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **Chemical Oxygen Demand (COD-value):** 17000 mg O<sub>2</sub>/g
- **Biochemical Oxygen Demand (BOD5-value):** not determined
- **AOX-indication:** The product does not contain organically bounded halogens (AOX-free).
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**  
The product does not contain heavy metals.
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Water hazard class 1 (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **European waste catalogue:**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                    | Void   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                      | Void   |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG, IATA</b><br>· <b>Class</b> | Void   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                | Void   |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                     | NO   |
| · <b>14.6 Special precautions for user</b>   | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>       | Not applicable.                                      |
| · <b>Transport/Additional information:</b>   | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | -  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Seveso category void**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 2012/18/EU does not apply.
- **Water hazard class:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
ID-Number: 5095
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
The substance is not a SVHC and is not included in the Candidate List.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H225      Highly flammable liquid and vapour.
- H301      Toxic if swallowed.

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*H311 Toxic in contact with skin.*

*H331 Toxic if inhaled.*

*H370 Causes damage to organs.*

*R11 Highly flammable.*

*R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.*

*R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.*

· **Department issuing MSDS:**

*C.S.B. GmbH Phone: +49 - 2151 - 652086-0  
Düsseldorfer Str. 113 Fax: +49 - 2151 - 652086-9  
47809 Krefeld / Germany*

· **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*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

*Acute Tox. 3: Acute toxicity, Hazard Category 3*

*STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1*

· **Sources:** *These data are based on information submitted by pre-suppliers.*

· **\* Data compared to the previous version altered.**