

Material Safety Data Sheet

1. Product & Company Identification

Product:	PVA filament, Ø1.75 mm, natural, 0,5 kg		
Manufacturer:	Conrad Electronic SE		
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau		
Telephone:	+49 (0) 9604 / 40 - 8988		
Date of issue:	16.05.2017		

2. Hazards Identification

		Min	Max	
Flammability	1			0 = Minimum
Toxicity	2			1 = Low
Body Contact	2			2 = Moderate
Reactivity	1			3 = High
Chronic	2			4 = Extreme

GHS classification:

Not Applicable

Label elements:

Not Applicable

SIGNAL WORD:

Not Applicable

3. Composition/Information on Ingredients

Ingredient Name	CAS No.	EC No.	Content (%)	
PVA	9002-89-5	209-183-3	>99.9%	
Other additives			<0.1%	



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4. First Aid Measures

INGESTION

- · Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE

If this product comes in contact with the eyes:

- · Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- · Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- · Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

· Treat symptomatically.



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5. Fire Fighting Measures

EXTINGUISHING MEDIA

- · Alcohol stable foam.
- There is no restriction on the type of extinguisher which may be used.
- · Use extinguishing media suitable for surrounding area.

FIRE FIGHTING

- · Alert Fire Brigade and tell them location and nature of hazard.
- · Wear breathing apparatus plus protective gloves in the event of a fire.
- · Prevent, by any means available, spillage from entering drains or water courses.
- · Use fire fighting procedures suitable for surrounding area.

FIRE/EXPLOSION HAZARD

Polyvinyl alcohol powder is a ST-1 (strong) dust explosion hazard when tested to ASTM E-1226. The explosive hazard is highly dependent on particle size, the finer the particles the greater the explosive strength

Typical maximum explosion pressure: 540 kPa

Dust Explosion Hazard Class 1

Dusts fall into one of three Kst* classes. Class 1 dusts; Kst 1-200 m3/sec; Class 2 dusts; 201-299 m3/sec. Class 3 dusts; Kst 300 or more.

FIRE INCOMPATIBILITY

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may
result.

6. Accidental Release Measures

MINOR SPILLS

· Generally not applicable.

MAJOR SPILLS

· Generally not applicable.

Personal Protective Equipment advice is contained in Section 8 of the SDS.



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7. Handling and Storage

PRECAUTIONS FOR SAFE HANDING

- Use in a well-ventilated area.
- Store in original containers.
- · Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

· Avoid reaction with oxidising agents

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available



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8. Exposure Controls, Personal Protection

APPROPRIATE ENGINEERING CONTROLS

Assess operations based upon available dust explosion information to determine the suitability of preventative or protective systems as precautionary measures against possible dust explosions. If prevention is not possible, consider protection by use of containment, venting or suppression of dust handling equipment. Where explosion venting is considered to be the most appropriate method of protection, vent areas should preferably be calculated based on Kst rather than an St value. If nitrogen purging is considered as the protective system, it must operate with an oxygen level below the limiting oxygen concentration.

PERSONAL PROTECTION











EYE AND FACE PROTECTION

- · Safety glasses with side shields
- · Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy
 document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

SKIN PROTECTION

See Hand protection below

HANDS/FEET PROTECION

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Suitability and durability of glove type is dependent on usage.

BODY PROTECTION

See Other protection below

OTHER PROTECTION

- · Safety glasses with side shields
- P.V.C. apron.
- · Barrier cream.



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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Color: Natural/Transparent

Form: Wire line

Odor: Odorlessness

180 Melting Range (°C): 220 Boiling Range (°C): Flash Point (°C): No data. Decomposition Temp (°C): 220 Autoignition Temp (°C): No data. Upper Explosive Limit (%): No data. Lower Explosive Limit (%): No data. Volatile Component (%vol): No data. Molecular Weight: No data. No data. Viscosity: Solubility in water (g/L): No data. pH (1% solution): No data. pH (as supplied): No data. Vapour Pressure (kPa): No data. Specific Gravity (water=1): No data.

10. Stability and Reactivity

Relative Vapour Density (air=1): No data.

REACTIVITY

Evaporation Rate:

See section 7

CHEMICAL STABILITY

• Unstable in the presence of incompatible materials.

No data.

- Product is considered stable.
- · Hazardous polymerisation will not occur.



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11. Toxicological Information

Information on toxicological affects

Acute Toxicity

LD/LC50 values relevant for classification

No data.

Primary irritant effect

On the skin

No data.

On the eyes

No data.

Inhaled

No data.

Sensitization

No data.

12. Ecological Information

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
PBS	LOW	LOW	LOW	HIGH
Other additives	No Data Available	No Data Available	No Data Available	No Data Available

13. Disposal Considerations

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- · Reduction
- Reuse
- Recycling
- · Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.



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14. Transport Information

Labels Required

Marine Pollutant: NO

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADR, IATA, IMDG, ADN

15. Regulatory Information

REGULATIONS

The product needs to follow local regulations.

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.