
Product name	Celvol® Polyvinyl alcohol, 5-30% solutions ***		NA/EN
MSDS number	80525	Revision Date	Jun.27.2009***
Revision Number	1***	Issuing date	Jun.27.2009***

1. Product and company identification

Product name
Celvol® Polyvinyl alcohol, 5-30% solutions ***

Sekisui Specialty Chemicals America, LLC
1603 West LBJ Freeway, Suite 200
Dallas, TX 75234

For information, telephone +1-972-443-8901
www.sekisui-sc.com ***

Transportation emergency phone numbers:
For Chemical Emergency: Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

2. Hazards identification

Emergency Overview

CAUTION!
May cause eye irritation.
May be harmful if absorbed through skin.
•Spilled polymer solution is very slippery.

Product Description

Appearance	
Form	liquid
Odor	odorless***
Colour	colourless to yellow

Potential health effects

Routes of exposure
Skin, eyes, inhalation, ingestion.

Immediate effects

Inhalation	No adverse health effects have been observed.
Skin	Only slightly irritating to the skin.

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Eyes may cause eye irritation Symptoms of exposure may include: Eye irritation or burning sensation.

Ingestion Essentially non-toxic based on components.

Target organ effects

Overexposure (prolonged or repeated exposure) may cause:
Irritation of the respiratory tract
Irritation of the digestive tract
Local irritation at the site of exposure

Medical conditions which may be aggravated by exposure:

Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:
Eyes
Skin

3. Composition/information on ingredients

Components	CAS-No	Percent %
Polyvinyl alcohol		5 - 30

The following specific grades of Celvol are covered by this MSDS:

- Celvol® 05-540 (25213-24-5) PVA Solution
- Celvol® 07-165 (9002-89-5) PVA Solution
- Celvol® 09-540 (25213-24-5) PVA Solution
- Celvol® 08-125 (9002-89-5) PVA Solution
- Celvol® 09-325 (9002-89-5) PVA Solution
- Celvol® 09-523 (25213-24-5) PVA Solution
- Celvol® 21-205 (25213-24-5) PVA Solution
- Celvol® 20-103 (9002-89-5) PVA Solution
- Celvol® 24-203 (25213-24-5) PVA Solution
- Celvol® 30-502 (25213-24-5) PVA Solution

Specific technical information on a Celvol grade should be obtained from the sales specification sheet available at www.celvol.com***

4. First aid measures

General Information

Wash contaminated clothing before re-use.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

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Skin

Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician***

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required***

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Call a physician immediately***

5. Fire-fighting measures

NFPA: **Health:** 1 **Flammability:** 0 **Instability:** 0

Suitable extinguishing media

The product in solution form does not burn. The product will burn only after the water it contains is driven off. For dry polymer, use alcohol resistant foam, carbon dioxide (CO₂) or dry chemical., alcohol-resistant foam, carbon dioxide (CO₂), Dry chemical***

Extinguishing media which must not be used for safety reasons
None Known.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases
Under conditions giving incomplete combustion, hazardous gases produced may consist of
carbon monoxide
carbon dioxide (CO₂)
Combustion gases of organic materials must in principle be graded as inhalation poisons***

Special protective equipment for fire-fighters

flame retardant protective clothing. self-contained breathing apparatus (EN 133)***

Other Information

Cool containers / tanks with water spray Thoroughly decontaminate bunker gear and other fire-fighting equipment before re-use***

6. Accidental release measures

Personal precautions

Avoid contact with the skin and the eyes. Forms slippery surfaces with water.

Keep unnecessary people away; isolate hazard area and deny entry.***

Environmental precautions

Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater***

Methods for cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations***

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7. Handling and storage

Handling

Advice on safe handling

Use adequate ventilation. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Spilled polymer solution is very slippery. Use care to avoid falls***

Storage

Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place

Material storage

Store at room temperature in the original container. Keep away from reactive metals (sodium, zinc, copper, calcium, etc.).

Incompatible products

Keep away from: concentrated peroxides perchlorates strong oxidizing agents

8. Exposure controls / personal protection

OSHA Exposure Limits

ACGIH Exposure Limits

Mexico National Exposure Limits

Exposure controls

Engineering measures

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred.

Protective Equipment

A safety shower and eyebath should be readily available.

General advice

Avoid contact with skin and eyes. Do not breathe dust. Use only in an area equipped with a safety shower. Hold eye wash fountain available***

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Skin protection:

Wear impervious clothing and gloves to prevent contact. Neoprene is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.***

Eye/face protection:

Wear chemical goggles when there is a reasonable chance of eye contact.***

9. Physical and chemical properties

Appearance

Form	liquid
Colour	colourless to yellow
Odor	odorless***
Boiling point/range	100C (212F)
Density	1.05 g/ml @ 20°C
pH	Neutral

10. Stability and reactivity

Stability

Stable

Conditions to avoid

Freezing conditions.

Materials to avoid

Keep away from reactive metals (sodium, zinc, copper, calcium, etc.)

Hazardous Combustion or Decomposition Products:

Thermal decomposition products may include oxides of carbon.

Hazardous reactions

Hazardous polymerization does not occur.

11. Toxicological information

Acetic acid ethenyl ester, polymer with ethenol

Oral		LD50: > 5000 mg/kg, rat***
Inhalation		LC50: > 20*** mg/m ³ , rat, 1h
Skin irritation		No skin irritation.
	Species	rabbit
Skin Sensitization		nonsensitizer
	Species	guinea pig

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11. Toxicological information

Eye Irritation	Method	Maximization
		Mild eye irritation
	Species	rabbit eye
Carcinogenic effects		No evidence of carcinogenicity respiratory tract epithelium***
	Study	inhalation study (28 months)
in vitro Mutagenicity		Ames test - negative***
in vivo Mutagenicity		Mouse micronucleus - negative

12. Ecological information

Acetic acid ethenyl ester, polymer with ethenol

Toxicity to fish		LC50: 10 mg/l (96h)
	Species	Lepomis macrochirus (Bluegill sunfish)
		LC50: 40 mg/l (96h)
	Species	Pimephales promelas (Fathead minnow)
Toxicity to daphnia		EC50: 8.3 mg/l (48h) EC50: 8.3 mg/l (96h)
	Species	Daphnia magna
Toxicity to bacteria		EC50: 50 mg/l (17h)
	Method	DIN 38412 T.8
Biodegradation		90 %
	Method	OECD 302 B (Zahn-Wellens Test)
Chemical Oxygen Demand (COD)		1640 mg/l

13. Disposal considerations

Disposal Considerations:

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. ***

14. Transport information

US Department of Transportation	Not regulated
TDG	Not regulated
ICAO/IATA	not restricted

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14. Transport information

IMDG Not regulated

15. Regulatory information

U.S. STATE REGULATIONS

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):
none***

U.S. FEDERAL REGULATIONS

TSCA Inventory:

We certify that all components are either on the TSCA inventory or qualify for an exemption.

Environmental Regulations:

SARA 311:

Acute health:	Yes***
Chronic health:	No
Fire:	No
Sudden release of pressure:	No
Reactive:	No

INTERNATIONAL REGULATIONS

International Chemical Inventory

Listed on the chemical inventories of the following countries or qualifies for an exemption:
AUSTRALIA,CHINA,CANADA,.KOREA,PHILIPPINES, JAPAN

16. Other information

Prepared By

Product Stewardship Department
Sekisui Specialty Chemicals***

NFPA:	Health: 1	Flammability: 0	Instability: 0
HMIS:	Health: 1	Flammability: 0	Physical hazard: 0

For more information, other material safety data sheets or technical data sheets, please consult the Sekisui Specialty Chemicals home page at www.sekisui-sc.com

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Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on Sekisui Specialty Chemical owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006 indicates, that no data meeting these requirements is available***

Changes against the previous version are marked by ***

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