



Safety Data Sheet

Material Name: SELVOL™ Polyvinyl Alcohol, homopolymer

SDS ID: SSC10001

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SELVOL™ Polyvinyl Alcohol, homopolymer

Trade Names

The following specific grades of SELVOL™ are covered by this SDS:
103, 107, 125, 165, 165SF, 305, 310, 325, 325LA, 325LA-LH, 350, 825

Synonyms

Polyvinyl alcohol, PVA

Chemical Family

Ethenol, homopolymer

Product Use

Intermediate, surfactant, adhesives, Food/feedstuff additives, Packaging materials, Auxiliary for leather, Auxiliary for textile.

Restrictions on Use

None known.

Manufacturer Information

Sekisui Specialty Chemicals America, LLC
1501 LBJ Freeway, Suite 530
Dallas, TX 75234

Emergency Phone Numbers:

In USA: CHEMTREC 800-424-9300

Outside USA: CHEMTREC 703-527-3887 (collect calls accepted)

Phone: +1-972-277-2900

www.sekisui-sc.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Combustible Dust

GHS Label Elements**Symbol(s)**

None needed according to classification criteria

Signal Word

Warning

Hazard Statement(s)

May form combustible dust concentrations in air

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Precautionary Statement(s)

Prevention

None needed according to classification criteria

Response

None needed according to classification criteria

Storage

None needed according to classification criteria

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
9002-89-5	Polyvinyl alcohol	> 92
67-56-1	Methyl alcohol	≤ 0.9

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Wash thoroughly after handling. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

Inhalation

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

If a large amount is swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

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Delayed

No information on significant adverse effects.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

carbon dioxide, regular dry chemical, alcohol-resistant foam, water spray.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

Combustible Dust. Dust/air mixtures may ignite or explode. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products

oxides of carbon.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Avoid inhalation of material or combustion by-products. Move material from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Dike for later disposal. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin and eyes. Do not breathe dust. Keep unnecessary people away, isolate hazard area and deny entry. The mixture is slippery when wet.

Methods and Materials for Containment and Cleaning Up

Avoid generation of dust. Collect spilled material in appropriate container for disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.

Environmental Precautions

Avoid generation of dust. Remove all sources of ignition. Ventilate affected area. Discharge into the environment must be avoided.

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Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Use methods to minimize dust. Minimize dust generation and accumulation. Use this material with adequate ventilation. Keep container tightly closed. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store at room temperature. Store in original container. Stacking height must not exceed three pallets.

Incompatible Materials

reactive metals, oxidizing agents, peroxides, perchlorates, nitrates.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Polyvinyl alcohol	9002-89-5
ACGIH:	10 mg/m ³ total dust; 3 mg/m ³ respirable dust
OSHA (US):	15 mg/m ³ total dust; 5 mg/m ³ respirable dust
	15 mppcf TWA respirable fraction; 5 mg/m ³ TWA respirable fraction; 50 mppcf TWA total dust; 15 mg/m ³ TWA total dust (related to Particulates not otherwise classified (PNOC))
Methyl alcohol	67-56-1
ACGIH:	200 ppm TWA
	250 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	200 ppm TWA; 260 mg/m ³ TWA
	250 ppm STEL; 325 mg/m ³ STEL
	Potential for dermal absorption
	6000 ppm IDLH
Europe:	200 ppm TWA; 260 mg/m ³ TWA
	Possibility of significant uptake through the skin



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OSHA (US):	200 ppm TWA; 260 mg/m ³ TWA
Mexico:	200 ppm TWA LMPE-PPT; 260 mg/m ³ TWA LMPE-PPT
	250 ppm STEL [LMPE-CT]; 310 mg/m ³ STEL [LMPE-CT]
	Skin - potential for cutaneous absorption

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses.

Skin Protection

Wear appropriate chemical resistant clothing.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	granular powder	Physical State	Solid
Odor	odorless	Color	white to off-white
Odor Threshold	Not available	pH	4.5 - 6.5 , conc: 4 %
Melting Point	230 - 240 C	Boiling Point	Not available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Minimum Dust Cloud Ignition Temperature 280 °C
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density	Not available	Specific Gravity	1.27 - 1.31 at 20 °C

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(air=1)		(water=1)	
Water Solubility	Soluble in hot water	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Bulk Density	0.61 - 0.67 g/cm ³ at 20 °C hPa	Density	Not available

Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazard expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid generating dust.

Incompatible Materials

reactive metals, oxidizing agents, peroxides, perchlorates, nitrates.

Hazardous decomposition products

oxides of carbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

No information on significant adverse effects.

Skin Contact

No information on significant adverse effects.

Eye Contact

No information on significant adverse effects.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50



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The components of this material have been reviewed in various sources and the following selected endpoints are published:

Polyvinyl alcohol (9002-89-5)

LD50 Rat >5000 mg/kg

LC50 Rat >24 mg/L 1 hour

Methyl alcohol (67-56-1)

Oral LD50 Rat 6200 mg/kg

Inhalation LC50 Rat 22500 ppm 8 h

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

May cause mechanical irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

Polyvinyl alcohol	9002-89-5
IARC:	Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Germ Cell Mutagenicity

Ames test found to be negative. No hazard expected.

Reproductive Toxicity

No hazard expected. See information on methanol.

Specific Target Organ Toxicity - Single Exposure

None known

Specific Target Organ Toxicity - Repeated Exposure

None known

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

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Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Polyvinyl alcohol	9002-89-5
Fish:	LC50 96 hours Danio rerio (Zebra fish) >5000 mg/L; LC50 96 hours Pimephales promelas (Fathead minnow) 40 g/L
Invertebrate:	EC50 48 hours Daphnia magna 8300 mg/L
Methyl alcohol	67-56-1
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]

Bioaccumulative Potential

Low.

Biodegradation

90%

Chemical Oxygen Demand (COD)

Ca. 1700 mgO₂/g

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Product is not an EPA hazardous waste.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not Regulated

TDG Information:

UN#: Not Regulated

IATA Information:

No Classification assigned.



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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Methyl alcohol	67-56-1
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Methyl alcohol	67-56-1
Repro/Dev. Tox	developmental toxicity , 3/16/2012

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Methyl alcohol	67-56-1
	1 %

WHMIS Classification

D2B

Component Analysis - Inventory

Polyvinyl alcohol (9002-89-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes



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Methyl alcohol (67-56-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 1 Fire: 1 Reactivity: Not available

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 1 Fire: 1 Reactivity: Not available

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: 5/18/15

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information



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Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

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