
Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SELVOL™ Polyvinyl Alcohol, tackified

Trade Names

Grade: MH82, MM51 and MM81

Chemical Family

Ethenol, homopolymer

Product Use

Chemical Intermediate, Adhesive, Paper

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

Acute Toxicity - Inhalation - Dust/Mist - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 (digestive system, nervous system)

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (kidneys)

GHS Label Elements

Symbol(s)





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Signal Word

Danger

Hazard Statement(s)

May form combustible dust concentrations in air

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May damage fertility or the unborn child

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapours/spray

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Response

If exposed: Call a POISON CENTER or doctor/physician

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Call a POISON CENTER or doctor if you feel unwell

Specific treatment (see label)

Storage

Store locked up

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	80 - 94
10043-35-3	Boric acid (H3BO3)	5.5 - 15.5

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67-56-1	Methyl alcohol	0.1-1
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Section 4 - FIRST AID MEASURES

Description of Necessary Measures

If exposed: Call a POISON CENTER or doctor/physician.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Call a POISON CENTER or doctor if you feel unwell. Specific treatment (see label).

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes damage to organs.

Delayed

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

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.

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Hazardous Combustion Products

Oxides of carbon, oxides of boron

Special Protective Equipment and Precautions for Firefighters

The powder can explode if mixed in air and ignited in a confined space. If unconfined, ignition will give rise to a Class A fire. Care should be taken to prevent the accumulation of dust. Dust is an explosion hazard. However, the explosion hazard is highly dependent on particle size; the finer the particles, the higher the explosion strength. Emptying of bags of powder directly into vessels where flammable vapors exist should be strictly prohibited because static discharges can be generated of sufficient strength to produce an explosion. 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.

Methods and Materials for Containment and Cleaning Up

Avoid generation of dust. Sweep up or gather material and place 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.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Use methods to minimize dust. Use this material with adequate ventilation. When not in use, keep containers tightly closed. Avoid breathing dust. Avoid generation of dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid contact with clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Wash/Decontaminate removed clothing before reuse.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up

Keep container tightly closed and in a well-ventilated place. Keep dry. Stacking height must not exceed three pallets. Sweep up or gather material and place in appropriate container for disposal.



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Incompatible Materials

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

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Polyvinyl alcohol	9002-89-5
ACGIH:	10 mg/m ³ TWA inhalable particles, recommended; 3 mg/m ³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
OSHA (US):	15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction (related to Particulates not otherwise classified (PNOC))
	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))
Boric acid (H ₃ BO ₃)	10043-35-3
ACGIH:	2 mg/m ³ TWA inhalable fraction
	6 mg/m ³ STEL inhalable fraction
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
OSHA (US):	200 ppm TWA; 260 mg/m ³ TWA



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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 goggles. Do not wear contact lenses.

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.

Glove Recommendations

Wear appropriate chemical resistant gloves.

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 , conc: 10 %
Melting Point	Not available	Boiling Point	Not available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available

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Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	Soluble in hot water	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available		

Section 10 - STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Not known to occur.

Conditions to Avoid

Avoid generation of dust. Avoid contact with incompatible materials.

Incompatible Materials

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

Hazardous decomposition products

oxides of carbon, oxides of boron

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Harmful if inhaled.

Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

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



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Polyvinyl alcohol (9002-89-5)
Oral LD50 Rat 23854 mg/kg
Boric acid (H3BO3) (10043-35-3)
Oral LD50 Rat 2660 mg/kg
Dermal LD50 Rabbit >2000 mg/kg
Inhalation LC50 Rat >0.16 mg/L 4 h
Methyl alcohol (67-56-1)
Oral LD50 Rat 6200 mg/kg
Inhalation LC50 Rat 22500 ppm 8 h

Immediate Effects

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes damage to organs.

Delayed Effects

Causes damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data

Causes skin irritation. Causes serious eye 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))
Boric acid (H3BO3)	10043-35-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

See information on methanol.

Specific Target Organ Toxicity - Single Exposure

digestive system. nervous system. respiratory tract.

Specific Target Organ Toxicity - Repeated Exposure

kidneys.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure



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eye disorders, respiratory disorders, gastrointestinal disorders, skin disorders, central nervous system disorders

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
Boric acid (H3BO3)	10043-35-3
Invertebrate:	EC50 48 h Daphnia magna 115 - 153 mg/L EPA
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]

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not Regulated

TDG Information:

UN#: Not Regulated

Section 15 - REGULATORY INFORMATION



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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: Yes Chronic Health: Yes 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

Boric acid (H3BO3)	10043-35-3
	1 %
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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Boric acid (H3BO3) (10043-35-3)

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

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: 4* Fire: 1 Reactivity: Not available

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

NFPA Ratings

Health: 4 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



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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

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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