



Material Safety Data Sheet

Material:

AYAA

Version: 1.7 (US)

Date of print: 10/13/2014

Date of last alteration: 08/14/2013

1. Product and company identification

1.1 Identification of the substance or preparation:

Commercial product name:

AYAA

Use of substance / preparation

Industrial.

Modifying agent for: Plastics .

All other areas of application to be agreed with the Application

Engineering/ Technical Marketing Department of the manufacturer.

1.2 Company/undertaking identification:

Manufacturer/distributor:

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information:

WACKER POLYMERS
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
Tel (800) 523-9476, Fax (517) 264-4088
Hours of operation: Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate Website: www.wacker.com

Emergency telephone no. (24h):

(517) 264-8500

Transportation emergency:

(800) 424-9300 (CHEMTREC, USA)

(703) 527-3887 (CHEMTREC, international)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Composition/information on ingredients

2.1 Chemical characteristics

CAS No.	
9003-20-7	Polyvinyl acetate

2.2 Information on ingredients:

This material does not contain any hazardous substances at or above OSHA and WHMIS reportable levels.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3. Hazards identification

3.1 Hazards classifications

HMIS® rating (product as packaged):

Health: 0

Fire: 1

Reactivity: 0

PPE: E

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:

Nuisance dust.

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Acute health effects

Route of entry or possible contact:

eyes , skin , ingestion .

Eye contact:

May cause slight eye irritation.

Skin contact:

May cause slight skin irritation.

Inhalation:

No known respiratory hazards.

Ingestion:

No known ingestion hazards. Ingestion is not expected in industrial use.

Additional information on acute health effects:

The toxicological evaluation is based on test results with a similar product. The toxicological evaluation is based on experience during manufacture and/or on analogy to a similar product which has been tested.

3.3 Further information:

Chronic health effects:

none known

Medical conditions which may be aggravated by exposure:

unknown

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

This material does not contain any reportable carcinogenic ingredients. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

4. First-aid measures

4.1 General information:

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 After inhalation

Inhalation is not applicable. No special treatment is required.

4.3 After contact with the skin

Wash with soap and water.

4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing

No special treatment is required. Get medical attention if symptoms occur. Show label if possible.

5. Fire-fighting measures

5.1 Flammable properties:

Property:

Flash point..... not applicable
Boiling point / boiling range..... not applicable
Lower explosion limit (LEL)..... not applicable

Value:

Method:

5.2 Fire and explosion hazards:

This material does not present any unusual fire or explosion hazards.

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5.3 Recommended extinguishing media:

Use extinguishing measures appropriate to the source of fire. water-spray , carbon dioxide, dry chemical or foam-type extinguishing media .

5.4 Unsuitable extinguishing media:

sharp water jet .

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

At low oxygen level: acetic acid . Hazardous combustion products: carbon dioxide , carbon monoxide and incompletely burnt hydrocarbons (in traces) .

5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a positive pressure self-contained breathing apparatus.

6. Accidental release measures

6.1 Precautions:

No special measures required.

HAZWOPER PPE Level: D

6.2 Containment:

No special measures required.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up

Take up mechanically and dispose of according to local/state/federal regulations.

6.4 Further information:

Eliminate all sources of ignition. Observe notes under section 7.

7. Handling and storage

7.1 Handling

Precautions for safe handling:

Avoid dust formation.

Precautions against fire and explosion:

Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks. Avoid dust deposit, remove dust regularly. Do not remove shrink film in hazardous locations (because of risk of static charging/discharge). Take precautionary measures against electrostatic charging.

7.2 Storage

Conditions for storage rooms and vessels:

Observe precautionary measures against dust explosion.

Advice for storage of incompatible materials:

not applicable .

Further information for storage:

not applicable .

Maximum temperature allowed during storage and transportation: 20 °C (68 °F)

8. Exposure controls and personal protection

8.1 Engineering controls

Ventilation:

Use with adequate ventilation.

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Local exhaust:

No special ventilation required.

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
	Particulates not otherwise classified	OSHA PEL	15.0		Inhalable dust/mist
	Particulates not otherwise classified	OSHA PEL	5.0		Respirable dust/mist
	Particulates not otherwise classified	ACGIH TWA	10.0		Inhalable dust/mist
	Particulates not otherwise classified	ACGIH TWA	3.0		Respirable dust/mist

Re Particulates not otherwise classified: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

8.3 Personal protection equipment (PPE)

Respiratory protection:

Respiratory protection is not normally required.

Hand protection:

Any liquid-tight rubber or vinyl gloves.

Eye protection:

Safety glasses with side shields or chemical safety goggles.

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9. Physical and chemical properties

9.1 Appearance

Physical state / form.....: solid - compact
Colour.....: colourless
Odour.....: odourless

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range.....	approx. 60 - 100 °C (140 - 212 °F)	
Boiling point / boiling range.....	not applicable	
Flash point.....	not applicable	
Lower explosion limit (LEL).....	not applicable	
Vapour pressure.....	not applicable	
Density.....	approx. 1.17 g/cm ³ at 20 °C (68 °F)	(DIN 51757)
Bulk density.....	730 kg/m ³	(DIN 53466)
Water solubility / miscibility.....	virtually insoluble	
pH-Value.....	not applicable	
Viscosity (dynamic).....	not applicable	

9.3 Further information

Thermal decomposition.....: > 220 °C (> 428 °F)

10. Stability and reactivity

10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

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10.2 Conditions to avoid

none known .

10.3 Materials to avoid

none known .

10.4 Hazardous decomposition products

If stored and handled properly: none known . At increased temperature: acetic acid .

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information

11.1 Information on toxicological effects

Toxicological testing has been conducted with similar product(s).

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : > 2000 mg/kg	rat	Conclusion by analogy OECD 423

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 404

11.1.3 Serious eye damage / eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 405

11.1.4 Respiratory or skin sensitization

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	mouse; LLNA (local lymph node assay)	Conclusion by analogy OECD 429

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11.1.5 Germ cell mutagenicity

Assessment:

Based on known data a significant mutagenic potential may be excluded.

Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

In animal experiments with repeated exposure no effects with relevance for humans were observed.

Product details:

Result/Effect	Species/Test system	Source
NOAEL: 3080 mg/kg	rat	test report OECD 408

11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Further toxicological information

Other information: During manufacture and use: No information on damage to health.

12. Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
LC ₅₀ : > 100 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>) (96 h)	Conclusion by analogy OECD 203
EC ₁₀ : 1000 mg/l	sludge (16 h)	Conclusion by analogy

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12.2 Persistence and degradability

Assessment:

Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

No adverse effects expected.

12.5 Other adverse effects

none known

12.6 Additional information

The ecotoxicological results provided were obtained from tests with similar products. According to present knowledge no adverse influence to environment expected.

13. Disposal considerations

13.1 Product disposal

Recommendation:

Observe local/state/federal regulations.

13.2 Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14. Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation: Not regulated for transport

Other Information: Temperature Sensitive Material.

Refrigerated transport required May through October.

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

15. Regulatory information

15.1 U.S. Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

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SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

141-78-6	Ethyl acetate
108-05-4	Vinyl acetate

15.2 U.S. State regulations

California Proposition 65 Carcinogens:

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the State of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

None.

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations

Details of international registration status

Listed on or in accordance with the following inventories:

EINECS - Europe
ECL - Korea
ENCS - Japan
AICS - Australia
IECSC - China
DSL - Canada
PICCS - Philippines
TSCA - USA

16. Other information

16.1 Additional information:

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with

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all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists

DOT - Department of Transportation

hPa - Hectopascals

mPa*s - Milli Pascal-Seconds

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods

ASTM D56.....

ASTM D92, DIN 51376, ISO 2592

ASTM D93, DIN 51758, ISO 2719

ASTM D3278, DIN 55680, ISO 3679

DIN 51755.....

Common name

Tagliabue (Tag) closed cup

Cleveland open cup

Pensky-Martens closed cup

Setaflash or Rapid closed cup

Abel-Pensky closed cup

16.3 Conversion table:

Pressure:..... 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa

Viscosity:..... 1 mPa*s = 1 centipoise (cP)