



# Material Safety Data Sheet

Material: 60002208

AYAT

Version: 1.3 (US)

Date of print: 06/30/2014

Date of last alteration: 06/04/2014

## 1. Product and company identification

### 1.1 Identification of the substance or preparation:

Commercial product name:

AYAT

Use of substance / preparation

Industrial.

Binder for: Building materials , 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](http://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 characterization (preparation)

Chemical characteristics

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: 1

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. Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

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 , inhalation (in case of dust formation)

### Eye contact:

No acute toxic effects are expected.

### Skin contact:

No acute toxic effects are expected.

### Inhalation:

No acute toxic effects are expected.

### Ingestion:

Not expected in industrial use.

## 3.3 Further information:

### Chronic health effects:

none known

### Medical conditions which may be aggravated by exposure:

unknown

### Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. 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:

In cases of sickness seek medical advice (show label or SDS if possible).

### 4.2 After inhalation

In case of dust/aerosol formation: If inhaled, remove to fresh air.

### 4.3 After contact with the skin

If contact with skin, wash skin with plenty of water or with water and soap.

### 4.4 After contact with the eyes

If contact with eyes, immediately flush eyes with plenty of water. Get medical attention if irritation occurs.

### 4.5 After swallowing

No special measures required. Get medical attention if symptoms occur.

## 5. Fire-fighting measures

### 5.1 Flammable properties:

#### Property:

Flash point.....: not applicable  
Boiling point / boiling range .....: not applicable  
Lower explosion limit (LEL) .....: no data available

#### Value:

#### Method:

### 5.2 Fire and explosion hazards:

In case of dust formation, material may form explosive mixtures with air. Electrostatic charging is possible.

### 5.3 Recommended extinguishing media:

water-spray , water-mist , carbon dioxide , dry chemical or foam-type extinguishing media .

### 5.4 Unsuitable extinguishing media:

none known

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

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

## 5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a 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.

#### Local exhaust:

not necessary

### 8.2 Associate substances with specific control parameters such as limit values

#### Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.
	Particulates not otherwise classified	OSHA PEL	15.0		Inhalable dust/mist

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	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:

In case of dust formation use a NIOSH approved respirator for: nuisance dust . Alternatively use a positive pressure, air-supplied respirator (regard TLV).

### Hand protection:

Recommendation: rubber gloves .

### Eye protection:

In case of dust formation: chemical safety goggles .

### Other protective clothing or equipment:

not necessary

## 8.4 General hygiene and protection measures:

Do not eat, drink or smoke when handling. Wash thoroughly after handling.

## 9. Physical and chemical properties

### 9.1 Appearance

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

### 9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range .....	approx. 100 - 200 °C (212 - 392 °F)	
Boiling point / boiling range .....	not applicable	
Flash point.....	not applicable	
Lower explosion limit (LEL) .....	no data available	
Vapour pressure.....	not applicable	
Density .....	approx. 1.18 g/cm <sup>3</sup>	(DIN 53479)
Bulk density .....	700 - 850 kg/m <sup>3</sup>	(DIN 53466)
Water solubility / miscibility.....	virtually insoluble	
pH-Value .....	not applicable	
Viscosity (dynamic) .....	not applicable	

## 10. Stability and reactivity

### 10.1 General information:

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

### 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 .

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## 10.5 Further information:

Hazardous polymerization cannot occur.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Toxicological testing has been conducted with this material.

#### 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 <sub>50</sub> : > 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

#### 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

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## 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: No information on damage to health during manufacture and use.

## 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 <sub>50</sub> : > 100 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> ) (96 h)	Conclusion by analogy OECD 203
EC <sub>10</sub> : 1000 mg/l	sludge (16 h)	Conclusion by analogy

### 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.

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## 12.5 Other adverse effects

none known

## 12.6 Additional information

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.

### 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.

#### 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):

CAS No.	Chemical	Upper limit wt. %
108-05-4	Vinyl acetate	<0.03
75-07-0	Acetaldehyde	<0.001

### 15.2 U.S. State regulations

#### California Proposition 65 Carcinogens:

75-07-0 Acetaldehyde



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## 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 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



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Flash point determination methods .....	Common name
ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592 .....	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719 .....	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679 .....	Setaflash or Rapid closed cup
DIN 51755.....	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)