

Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

# Product and company identification

#### 1.1 Identification of the substance or preparation:

Commercial product name: CAVASOL® W8 HP PHARMA

Product group: R&D Material
Use of substance / preparation: Industrial.

Auxiliary agent for: medicine .

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 FINE CHEMICALS

Tel (517)264-8165, Fax (517) 264-8795Hours 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)

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 (substance):

CAS No.	Chemical characteristics
128446-34-4	2-Hydroxypropyl cyclooctaamylose

### 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

 ${\tt HMIS}^{\scriptsize{(0)}}$  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. 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.

# WACKER FINE CHEMICALS

# Material Safety Data Sheet

Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

#### 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.

#### Acute health effects

#### Route of entry or possible contact:

skin , inhalation (in case of dust formation) , eyes , ingestion

#### Eye contact

Slight irritation by mechanical effects can not be excluded.

#### Skin contact:

No acute toxic effects are expected.

#### Inhalation:

No acute toxic effects are known.

#### Ingestion:

Not expected in industrial use.

#### Additional information on acute health effects:

odourless

#### 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:

Get medical attention if irritation occurs or if breathing becomes difficult.

# 4.2 After inhalation:

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.

# 4.5 After swallowing:

No special measures required. Drink plenty of water.



Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

# Fire-fighting measures

#### 5.1 Flammable properties:

Method

5.2 Fire and explosion hazards:

The product is a combustible organic dust and under special conditions dust explosion is possible. Electrostatic charging is possible.

5.3 Recommended extinguishing media:

water , carbon dioxide , sand , dry chemical or foam-type extinguishing media extinguishing media

5.4 Unsuitable extinguishing media:

none known

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

carbon dioxide , carbon monoxide and incompletely burnt hydrocarbons

5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Use respiratory protection independent of recirculated air.

#### 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.

# 7 Handling and storage

# 7.0 General information:

No special protective measures required.

#### 7.1 Handling

Precautions for safe handling:

Increased risk of slipping if substance comes into contact with water.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

#### 7.2 Storage

Conditions for storage rooms and vessels:

Observe precautionary measures against dust explosion.

Advice for storage of incompatible materials:

none known

Further information for storage:

Store in a dry and cool place.

# Exposure controls and personal protection

# 8.1 Engineering controls

Ventilation:

Use only with adequate ventilation.

Local exhaust:

recommended



Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

# 8.2 Associate substances with specific control parameters such as limit values Maximum airborne concentrations at the workplace:

CAS No.	Material	Туре	mg/m³	ppm	Dust fract.
	Particulates not otherwise classified	OSHA PEL	15.0		Inhalable
					dust
	Particulates not otherwise classified	OSHA PEL	5.0		Respirable
					dust
	Particulates not otherwise classified	ACGIH TWA	10.0		Inhalable
					dust
	Particulates not otherwise classified	ACGIH TWA	3.0		Respirable
					dust

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

none known

### 8.3 Personal protection equipment (PPE)

# Respiratory protection:

Recommendation in case of dust formation: Use a NIOSH approved respirator for: nuisance dust .  $\mbox{{\tt Hand protection:}}$ 

not recommended

# Eye protection:

In case of dust formation: chemical safety goggles recommended .

# Other protective clothing or equipment:

Recommendation in case of dust formation: antistatic clothing and shoes .

#### 8.4 General hygiene and protection measures:

Do not breathe dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

# 9 Physical and chemical properties

#### 9.1 Appearance

Physical state / form....: solid - powder Colour...: white Odour...: odourless

# 9.2 Safety parameters Method

Melting point / melting range....: not applicable
Boiling point / boiling range....: not applicable
Flash point....: not applicable
Ignition temperature ...: not determined
Lower explosion limit (LEL) ...: not determined
Upper explosion limit (UEL) ...: not determined
Vapour pressure ...: not applicable
Bulk density ...: not applicable
Bulk density ...: 800 g/l at 25 °C (77 °F)

pH-Value..... not applicable Viscosity (dynamic)..... not applicable

Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

# 10 Stability and reactivity

#### 10.0 General information:

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

#### 10.1 Conditions to avoid:

none known

#### 10.2 Materials to avoid:

oxidizing agents .

# 10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: . Up to 200 °C (392 °F): none known .

# 10.4 Further information:

Hazardous polymerization cannot occur.

Value/walue range

Conditions to avoid hazardous polymerization: none known

# 11 Toxicological information

### 11.1 General information:

Toxicological testing has been conducted with this material.

#### 11.2 Toxicological data:

Evnogition

# Acute toxicity (LD50/LC50-values relevant to classification):

EXPOSICION	value, value lange	ppecies	Dource
oral	> 2000 mg/kg	rat	test report
Primary irrit	ation:		
Exposition	Effect	Species/Testsystem	Source

COURGO

ľ	Exposition	Effect	Species/Testsystem	Source
	to skin	not irritating	rabbit	test report
	to eyes	not irritating	rabbit	test report

### Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-	guinea-pig	test report
		Kligmann		

# Reference points for mutagenic (carcinogenic) potential:

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Test system	Effect	Source
Mammalian Erythrocyte Micronucleus Test	not mutagenic	test report
In vitro Mammalian Chromosomal Aberration Test	not mutagenic	test report
Bacterial Reverse Mutation Test	not mutagenic	test report

# Experience with man:

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# 12 Ecological information

# 12.1 Information on elimination (persistence and degradability)

#### Biodegradation:

		_	
Method	Degree of elimination	Classification	Source
CO2 Evolution Test/Modified Sturm	< 17 %, in 28 day(s)	Not readily	test report
Test		biodegradable.	

# 12.2 Behaviour in environmental compartments

Mobility

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# Further information:

Bioaccumulation is not expected to occur.



Material: 60007022 CAVASOL® W8 HP PHARMA

Version: 1.2 (US) Date of print: 03/14/2006 Date of last alteration: 01/17/2006

#### 12.3 Ecotoxicological effects:

Species	Test method	Exp. time	Result	Source
Daphnia magna	acute	48 h	> 100 mg/l (EC50)	test report

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

#### 12.4 Additional information

Other harmful effects

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#### General information:

According to our present knowledge no further data known. Prevent material from entering surface waters and soil. Only introduce into water purification plants in diluted state. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

# 13 Disposal considerations

#### 13.1 Product disposal

#### Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

# 13.2 Packaging diposal

#### 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

#### 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:

Not all ingredients are listed on the TSCA Inventory. This material is exempt from TSCA regulations if it is used in an application regulated solely by the Federal Food, Drug and Cosmetic Act (FDCA).

#### 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.

Material: 60007022 CAVASOL® W8 HP PHARMA

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#### HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

# 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 one or more of its components is not listed on the Canadian Domestic Substances List.

# Non-DSL Chemicals:

CAS No.	Chemical	Upper limit wt. %
17465-86-0	Cyclooctaamylose	1.5
Confidential	Wacker Proprietary Non-DSL Chemical	99.0

#### Canadian Ingredient Disclosure List:

This material contains no listed components.

#### 15.4 Other international regulations

# EU Risk Phrases:

R-Phrase	Description
R-	-

# EU Safety Phrases:

S-Phrase	Description
S-	-

#### Details of international registration status

Listed on the following inventories:

AICS - Australia HSNO - New Zealand

# 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,



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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.

#### 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 WHMIS - Canadian Workplace Hazardous Materials

PEL - Permissible Exposure Limit

#### 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

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

Identification System

#### 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

1 mPa\*s = 1 Centipoise (Cp) Viscosity: