

Material Safety Data Sheet

Material: 60030104 CAVASOL® W7 HP TL

Version: 1.2 (US) Date of print: 14.03.2006 Date of last alteration: 03.06.2003

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: CAVASOL® W7 HP TL
Use of substance / preparation: Industrial.
Raw material for: Household products .
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 Product Safety Department of Wacker Chemie GmbH, Germany.

2 Composition/information on ingredients**2.1 Chemical characterization (preparation):**

Chemical characteristics
2-hydroxypropyl-cycloheptaamylose, aqueous solution

2.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
VERU	57-55-6	Propylene glycol	>1.0	<5.0	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

3 Hazards identification**3.1 Hazards classifications**

HMIS® rating (product as packaged):

Health: 0 Fire: 0 Reactivity: 0 PPE: B

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:

No known physical hazards.

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Acute health effects**Route of entry or possible contact:**

eyes , ingestion , skin , inhalation

Eye contact:

No acute toxic effects are expected.

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:

The toxicological evaluation is based on analogy to a similar product.

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. 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:

If inhaled as aerosol, remove to fresh air.

4.3 After contact with the skin:

If contact with skin, immediately flush skin with plenty of water for at least 15 min.

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:

If swallowed, induce vomiting. Vomiting can be induced by giving Syrup of Ipecac. Give fluids until the vomitus is clear.

5 Fire-fighting measures**5.1 Flammable properties:**

	Method
Flash point.....	not applicable
Boiling point / boiling range.....	approx. 100 °C (212 °F)
Lower explosion limit (LEL).....	not applicable
Upper explosion limit (UEL).....	not applicable
Autoignition temperature.....	not applicable

5.2 Fire and explosion hazards:

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

5.3 Recommended extinguishing media:

Material does not burn. Use extinguishing measures appropriate to the source of fire.

5.4 Unsuitable extinguishing media:

none known .

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

not applicable .

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5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

6 Accidental release measures**6.1 Precautions:**

No special measures required.

HAZWOPER PPE Level: D

6.2 Containment:

Dam in any fluid that runs out using suitable material (e.g. earth). Observe local/state/federal regulations.

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:

Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers.

7 Handling and storage**7.1 Handling**

Precautions for safe handling:

Spilled substance increases risk of slipping.

Precautions against fire and explosion:

No special precautions against fire and explosion required.

7.2 Storage

Conditions for storage rooms and vessels:

Protect against frost.

Advice for storage of incompatible materials:

none known .

Further information for storage:

Store cool.

Minimum temperature allowed during storage and transportation: 0 °C (32 °F)

8 Exposure controls and personal protection**8.1 Engineering controls**

Ventilation:

Use with adequate ventilation.

Local exhaust:

No special ventilation required.

8.2 Associate substances with specific control parameters such as limit values

none known .

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:

Do not eat or drink when handling. Avoid contact with eyes and skin. Wash thoroughly after handling.

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9 Physical and chemical properties

- 9.1 Appearance**
 Physical state / form.....: liquid
 Colour.....: yellowish
 Odour.....: odourless
- 9.2 Safety parameters** **Method**
 Melting point / melting range.....: < 0.00 °C (< 32 °F)
 Boiling point / boiling range.....: approx. 100 °C (212 °F)
 Flash point.....: not applicable
 Autoignition temperature.....: not applicable
 Lower explosion limit (LEL).....: not applicable
 Upper explosion limit (UEL).....: not applicable
 Vapour pressure.....: approx. 20 hPa at 20 °C (68 °F)
 Density.....: approx. 1.1 g/cm3
 Water solubility / miscibility.....: completely miscible
 pH-Value.....: 6 - 8
 Distribut. coeff. n-octanol/water....: not applicable
 Viscosity (dynamic).....: not determined

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:**
 acids , oxidizing agents .
- 10.3 Hazardous decomposition products:**
 none known .
- 10.4 Further information:**
 Hazardous polymerization cannot occur.
 Conditions to avoid hazardous polymerization: none known

11 Toxicological information

- 11.1 General information:**
 See Sect. 16.1 "Additional information".

- 11.2 Toxicological data:**
Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 2243 mg/kg	rat	test report
dermal	> 2000 mg/kg	rat	literature

Primary irritation:

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

Sensitization:

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

Subacute to chronic toxicity:

Species	Test method	End point	Value	Source
rat	Repeated Dose 90-day Oral Toxicity Study in Rodents	NOAEL	4400 mg/kg/h/d	literature

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Reference points for mutagenic (carcinogenic) potential:

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

12 Ecological information**12.1 Information on elimination (persistence and degradability)****Biodegradation:**

Method	Degree of elimination	Classification	Source
CO2 Evolution Test/Modified Sturm Test	< 6 %, in 28 day(s)		test report

Biodegradation / further information:

Not easily biodegradable.

Hydrolysis:

Method	Classification	Source
Hydrolysis as a function of pH.	Hydrolytic stability.	test report

12.2 Behaviour in environmental compartments**Further information:**

Bioaccumulation is not expected to occur. log POW <= 3.0

12.3 Ecotoxicological effects:

Species	Test method	Exp. Time	Result	Source
zebra fish (Brachydanio rerio)	acute	96 h	> 1131 mg/l (LC50)	test report
Daphnia magna	acute	48 h	> 1084 mg/l (EC50)	test report
Selenastrum capricornutum	acute	72 h	> 1182 mg/l (IC50)	test report

No likelihood of damaging effect on water organisms.

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

According to present experience, adverse effects on water purification plants are not expected.

12.4 Further ecological information**General information:**

Do not introduce into waters and into 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. Data apply to effective substance.

13 Disposal considerations**13.1 Product disposal****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. 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. Uncleaned packaging should be treated with the same precautions as the material.

Recommended cleaning agent:

water

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14 Transport information

- 14.1 US DOT & CANADA TDG SURFACE
Valuation.....: not Regulated
Other Information.....: Protect from freezing.
- 14.2 Transport by sea IMDG-Code
Valuation.....: not Regulated
- 14.3 Air transport ICAO-TI/IATA-DGR
Valuation.....: not Regulated

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:**
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:**
57-55-6 Propylene glycol
- 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.

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Non-DSL Chemicals:

CAS No.	Chemical	Upper limit wt. %
128446-35-5	.beta.-Cyclodextrin, 2-hydroxypropyl ethers	45.0

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, 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

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)