

Material Safety Data Sheet

Material: 70810260 CAVAMAX W7 / Eureco Complex 100 g

Version: 1.4 (US) Date of print: 24.12.2004 Date of last alteration: 20.09.2002

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

Commercial product name: CAVAMAX W7 / Eureco Complex 100 g
Product group: R & D Material
Use of substance / preparation: Industrial.
Raw material for: Personal Care .
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 GmbH
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information: WACKER SPECIALTIES
Tel (517) 264-8165, Fax (517) 264-8795
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)

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
Cycloheptamylose/6-phthalimidohexaneperoxoic acid complex

2.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	128275-31-0	6-Phthalimido hexaneperoxoic acid	10.0	30.0	

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: 3 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: D1B

3.2 Emergency overview and potential hazards

Signal Word:

DANGER

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Physical Hazards:

Nuisance dust.

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

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

Eye contact:

Causes permanent eye damage.

Skin contact:

May cause slight skin irritation.

Inhalation:

No toxic effects are known.

Ingestion:

Not expected in industrial use.

Additional information on acute health effects:

none

3.3 Further information:**Chronic health effects:**

none known . See Sect. 16.1 "Additional information".

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 immediately. Remove contaminated clothing and shoes. Show label.

4.2 After inhalation:

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

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:

Drink plenty of water in small portions and induce vomiting. Vomiting can be induced by giving Syrup of Ipecac. Give fluids until the vomitus is clear.

4.6 Advice for the physician:

Treat symptomatically.

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

	Method
Flash point.....	not applicable
Boiling point / boiling range.....	not applicable
Lower explosion limit (LEL).....	no data at hand
Upper explosion limit (UEL).....	no data at hand
Autoignition temperature.....	not established

5.2 Fire and explosion hazards:

Contact with combustible material may cause fire. Dust may form explosive mixture with air. Hazardous combustion products: nitrous oxides .

5.3 Recommended extinguishing media:

water , sand , 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: nitric gases .
- 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:**
Avoid dust formation. Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Do not breathe dust.
HAZWOPER PPE Level: C
- 6.2 **Containment:**
Do not introduce into sewerage or in waters. Retain contaminated water/extinguishing water. 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. Avoid dust formation.

7 Handling and storage

- 7.1 **Handling**
Precautions for safe handling:
Ensure adequate ventilation.
Precautions against fire and explosion:
Fine dust may form explosive mixture with air. Observe the general rules for fire prevention. Take precautionary measures against dust explosion. Danger of dust explosion: Do not stir up dust; remove dust after wetting. Take precautionary measures against electrostatic charging.
- 7.2 **Storage**
Conditions for storage rooms and vessels:
Do not store in containers made of aluminum or other light metals.
Advice for storage of incompatible materials:
Observe regulations for storing peroxides.
Further information for storage:
Store in a dry and cool place.
Maximum temperature allowed during storage and transportation: 50 °C (122 °F)

8 Exposure controls and personal protection

- 8.1 **Engineering controls**
Ventilation:
Use only with adequate ventilation.
Local exhaust:
In case of dust formation: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.
- 8.2 **Associate substances with specific control parameters such as limit values**
Threshold limit values (TLV):

CAS No.	Material	Type	mg/m ³	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

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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: A NIOSH approved air purifying respirator fitted with at least P-99 solid/aerosol particulate filters is recommended if overexposure to dust or aerosol mist could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:

rubber gloves

Eye protection:

tight fitting chemical safety goggles

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide work station with emergency shower and eye-bath.

8.4 General hygiene and protection measures:

Do not breathe dust. Avoid contact with eyes and skin. 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.....: colourless

Odour.....: odourless

9.2 Safety parameters**Method**

Melting point / melting range.....: not applicable

Boiling point / boiling range.....: not applicable

Flash point.....: not applicable

Autoignition temperature.....: not established

Lower explosion limit (LEL).....: no data at hand

Upper explosion limit (UEL).....: no data at hand

Bulk density.....: 300 - 400 kg/m³

Water solubility / miscibility.....: 3 g/l at 20 °C (68 °F)

pH-Value.....: 3.1 (10 g/l H₂O)

9.3 Further information

Thermal decomposition.....: Exothermic decomposition begins at 335 °C
(635 °F)

10 Stability and reactivity**10.0 General information:**

Transition-metal compounds severely lower the decomposition point.

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

oxidizing agents , reducing agents .

10.3 Hazardous decomposition products:

none known .

10.4 Further information:

Hazardous polymerization cannot occur.

Conditions to avoid hazardous polymerization: not applicable

11 Toxicological information**11.1 General information:**

The following data were taken from literature. Data applicable to active component.

11.2 Toxicological data:

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

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

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	mildly irritating	rabbit	literature
to eyes	serious damages to eyes	rabbit	literature

Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	other	guinea-pig	literature

Subacute to chronic toxicity:

Species	Test method	End point	Value	Source
rat	Repeated Dose 28-day Oral Toxicity Study in Rodents	NOEL	100 mg/kg/h/d	literature

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

Readily biologically degradable

Hydrolysis:

Method	Classification	Source
	No hydrolytic stability.	

Further information:

No data known.

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

Bioaccumulation improbable.

12.3 Ecotoxicological effects:

Species	Test method	Exp. Time	Result	Source
zebra fish (Brachydanio rerio)	acute	96 h	0.4 mg/l (LC50)	literature
Daphnia magna	acute	48 h	17.6 mg/l (EC50)	literature

Active component: Very toxic to aquatic organisms.

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

Test system	Exp. Time	Result	Source
Pseudomonas putida		100 mg/l (EC50)	literature

According to present experience, no adverse effects on water purification plants.

Further information:

-

12.4 Further ecological information**General information:**

Do not introduce into waters, sewage water or soil. Data apply to effective substance.

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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.

14 Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation.....: Not Regulated

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:**

Not all ingredients are listed on the TSCA Inventory. This is a research and development material and must be handled under the supervision of a technically qualified person. 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:

Immediate (acute) health hazard.

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.

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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:

D1B

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. %
128275-31-0	6-Phthalimidohexaneperoxoic acid	15.0

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations**EU Risk Phrases:**

R-Phrase	Description
R8	Contact with combustible material may cause fire.
R41	Risk of serious damage to eyes.

EU Safety Phrases:

S-Phrase	Description
S17	Keep away from combustible material.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eyes/ face protection.

Details of international registration status

Listed on the following inventories:

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.

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16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists	ppm - Parts per Million
DOT - Department of Transportation	SARA - Superfund Amendments and Reauthorization Act
hPa - Hectopascals	STEL - Short Term Exposure Limit
mPa*s - Milli Pascal-Seconds	TSCA - Toxic Substances Control Act
OSHA - Occupational Safety and Health Administration	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	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)