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# Safety Data Sheet acc. to OSHA HCS

Printing date 08/03/2016 Reviewed on 08/03/2016

#### 1 Identification

· Product identifier

HERCULAN PU 150 CM { A } · Trade name:

Article number:

Application of the substance / the mixture

Coating compound/ Surface coating/ paint

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

HERCULAN B.V. Energieweg 6

4231 DJ Meerkerk The Netherlands Phone +31 183 354700 Fax: +31 183 354740 e-mail: info@herculan.com

Information department: Enviromental department

Emergency telephone number:

+49 (0) 6131 19240 [24 h - 365 d] - Giftinformationszentrale Mainz

+31 (0) 183 354 700 [Mo - Fr. 8 - 17 o'clock] - HERCULAN

#### 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Void · Hazard pictograms Void Signal word Void Hazard statements Void

· Classification system:

NFPA ratings (scale 0 - 4)

HMIS-ratings (scale 0 - 4)

Reactivity = 0 Health - 0

Fire = 0 Reactivity = 0

Health = 0

Fire = 0

Other hazards

Results of PBT and vPvB assessment

· PBT: Not applicable. vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

Description: Mixture / Resin consisting of the following components

Dangerous components:

25322-68-3 Polyethyleenglycol 10 - 25% 34590-94-8 (2-methoxymethylethoxy)propanol Flam. Liq. 4, H227 2.5 - 5% 111109-77-4 dipropyleneglycoldimethylether Flam. Lig. 4, H227 2.5 - 5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

# 4 First-aid measures

Description of first aid measures

General information:



No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

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Generally the product does not irritate the skin.

After skin contact: After eye contact:

**O**+

Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

· Information for doctor:

· Most important symptoms and effects, both

acute and delayed No further relevant information available

Indication of any immediate medical attention

and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:



CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire

· Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases.

#### 6 Accidental release measures

· Personal precautions, protective equipment

and emergency procedures Not required.

· Environmental precautions:

Methods and material for containment and

cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). · Reference to other sections No dangerous substances are released.

See Section 7 for information on safe handling.

Do not allow to enter sewers/ surface or ground water

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

· Handling:

· Precautions for safe handling

No special precautions are necessary if used correctly.

Information about protection against

explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and

receptacles: No special requirements.

Information about storage in one common

Not required.

storage facility: · Further information about storage conditions: Protect from frost.

Store in dry conditions

Store in a cool place.

· Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of

technical systems: No further data; see item 7.

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- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

25322-68-3	Pol	yethyl	leengi	lycol	
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WEEL Long-term value: 10 mg/m3 (H): MW>200

#### 34590-94-8 (2-methoxymethylethoxy)propanol

PEL Long-term value: 600 mg/m³, 100 ppm

Short-term value: 900 mg/m3, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin

Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm

Additional information:

The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Store protective clothing separately. Do not eat, drink, smoke or sniff while working.

Breathing equipment:



Combination filter A-P2

Only during spraying without adequate removal by suction.

Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present.

The glove material has to be impermeable and resistant to the product/ the

- Recommended filter device for short term use:
- Protection of hands:

Material of gloves

marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

substance/ the preparation.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The selection of the suitable gloves does not only depend on the material, but also on further

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR Natural rubber, NR

· Eye protection:

Tightly sealed goggles

Body protection:



Protective work clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties

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information on basic physical and one	modi properties
· General Information	
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>100 °C (>212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
. Auto igniting:	Product is not sollianiting

Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
Density at 20 °C (68 °F):	1.051 g/cm³ (8.771 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined

#### 10 Stability and reactivity

Reactivity No further relevant information available.

3.4 %

42.8 %

Chemical stability

Solvent content:

Water:

Organic solvents:

Solids content:

Other information

Thermal decomposition / conditions to be

avoided:

No decomposition if used according to specifications. · Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid · Incompatible materials:

No further relevant information available. No further relevant information available.

No further relevant information available

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· Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: on the eye:

No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product is not subject to classification according to internally approved calculation methods

No irritant effect.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

· IARC (Inte	· IARC (International Agency for Research on Cancer)		
13463-67-7	titanium dioxide	2B	
	Ethylene, homopolymer	3	
7631-86-9	silicon dioxide, chemically prepared	3	
1330-20-7	Xyleen (mixture)	3	
100-41-4	ethylbenzene	2B	
108-94-1	cyclohexanone	3	
108-88-3	toluene	3	
· NTP (Natio	NTP (National Toxicology Program)		

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

· Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems:

Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or

sewage system.

Results of PBT and vPvB assessment

· PRT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

# 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper

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4 Transport information		
· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of MA	ARPOL73/78 and	
the IBC Code	Not applicable.	
· UN "Model Regulation":	Void	

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

121-44-8 triethylamine

· TSCA (Toxic Substances Control Act): 13463-67-7 titanium dioxide

25322-68-3	Polyethyleenglycol
34590-94-8	(2-methoxymethylethoxy)propanol
111109-77-4	dipropylenealycoldimethylether

68186-91-4 Copper chromite spinel pigment Cu(Cr,Fe)2O4

9002-88-4 Ethylene, homopolymer

7631-86-9 silicon dioxide, chemically prepared

25322-69-4 Polypropylenglycol

20344-49-4 iron hydroxide oxide

121-44-8 triethylamine

7732-18-5 water, distilled, conductivity or of similar purity

Proposition 65

· Chemicals known to cause cancer:

13463-67-7 titanium dioxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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Cancerogenity categories	
EPA (Environmental Protection Agency)	
1330-20-7 Xyleen (mixture)	
100-41-4 ethylbenzene	
108-88-3 toluene	
TLV (Threshold Limit Value established	
13463-67-7 titanium dioxide	
121-44-8 triethylamine	
1330-20-7 Xyleen (mixture)	
100-41-4 ethylbenzene 77-58-7 dibutyltin dilaurate	
108-94-1 cyclohexanone	
108-88-3 toluene	
MAK (German Maximum Workplace Con	*
13463-67-7 titanium dioxide 100-41-4 ethylbenzene	
100-41-4 ethylbenzene 108-94-1 cyclohexanone	
· NIOSH-Ca (National Institute for Occupa	tional Safety and Health)
13463-67-7 titanium dioxide	
GHS label elements	Void Void
· Hazard pictograms · Signal word	void Void
· Hazard statements	Void
· National regulations:	
· ·	
· Technical instructions (air):	Class   Share in %
	Wasser 42.8
	NK 3.4
· Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
· VOC	
· VOC EU [%]	2.90 %
· VOC EU [g/l]	49.0 g/l
· VOC USA	49.0 g/l / 0.41 lb/gl
VOC CH	3.35 %
· Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
16 Other information	
	rledge. However, this shall not constitute a guarantee for any specific product features and shall
establish a legally valid contractual relationship.	
Department issuing SDS:	Environmental Department
· Contact: · Date of preparation / last revision	Dr. Michael Kissel 08/03/2016 / 15
· Abbreviations and acronyms:	U6/U3/2U10 / 13  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regula
Abbreviations and deronyme.	Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning
	International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	DOT: US Department of Transportation IATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA) PBT: Persistent. Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	NIOSH: National Institute for Occupational Safety

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4

· \* Data compared to the previous version

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