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Safety Data Sheet acc. to OSHA HCS

Printing date 08/02/2016 Reviewed on 08/02/2016

1 Identification

· Product identifier

HERCULAN Color Paste · 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).

Fire = 0

Reactivity = 0

Label elements

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

· Classification system:

NFPA ratings (scale 0 - 4) Health - 1 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health - 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: Void

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:

After inhalation:

After skin contact: After eye contact:

Supply fresh air; consult doctor in case of complaints. Generally the product does not irritate the skin.

No special measures required.



Rinse opened eye for several minutes under running water.

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If symptoms persist consult doctor.

· Information for doctor:

· After swallowing:

· Most important symptoms and effects, both

acute and delayed

· Indication of any immediate medical attention

and special treatment needed

No further relevant information available.

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

Use fire fighting measures that suit the environment.

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: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and

cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Reference to other sections

· 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

storage facility:

Not required

· 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.

· Control parameters

· Components with limit values that require

monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have

to be monitored at the workplace.

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

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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:



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.

Recommended filter device for short term use:

Protection of hands:

Combination filter A-P2



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

Material of gloves

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

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 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

Eve protection:



Tightly sealed goggles

Protective work clothing

Body protection:

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information

Appearance: Color:

Form:

Fluid According to product specification

> 255 °C (> 491 °F)

Odor: Characteristic Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Ignition temperature:

Melting point/Melting range: Undetermined. Boiling point/Boiling range: >200 °C (>392 °F)

>999 °C (>1830 °F) Flash point:

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting

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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):	1 hPa (1 mm Hg)	
Density at 20 °C (68 °F):	1.83036 g/cm³ (15.274 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.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	0.0 %	
Solids content:	50.2 %	
Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity

Chemical stability

· Thermal decomposition / conditions to be

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

· Conditions to avoid

No further relevant information available.

· Incompatible materials:

No further relevant information available.

No further relevant information available.

· Hazardous decomposition products:

No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

on the skin: No irritant effect. No irritating effect. on the eve: · Sensitization:

· Additional toxicological information:

No sensitizing effects known.

The product is not subject to classification according to internally approved calculation methods

for preparations:

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 (International Agency for Research on Cancer)

13463-67-7 titanium dioxide

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Bioaccumulative potential

· Toxicity

Aquatic toxicity: Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

No further relevant information available.

Mobility in soil

No further relevant information available.

No further relevant information available.

Additional ecological information:

Water hazard class 2 (Self-assessment): hazardous for water

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Results of PBT and vPvB assessment

PRT: vPvB: Not applicable. Not applicable.

Other adverse effects

No further relevant information available.

No

13 Disposal considerations

Waste treatment methods

Recommendation:

Uncleaned packagings:

Recommendation:

Smaller quantities can be disposed of with household waste.

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

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

Void

Packing group

DOT, ADR, IMDG, IATA Void

Environmental hazards:

Marine pollutant:

Not applicable.

Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and

the IBC Code Not applicable.

UN "Model Regulation": Void

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

13463-67-7 titanium dioxide

· MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

· NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide

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

· National regulations:

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· VOC

· VOC EU [%] 0.00 % · VOC USA 0.0 g/l / 0.00 lb/gl

· VOC CH

· Chemical safety assessment:

0.00 % A Chemical Safety Assessment has not been carried out.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Environmental Department · Contact:

Dr. Michael Kissel

· Date of preparation / last revision

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning th

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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HERCUL∆N

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Trade name: HERCULAN Color Paste DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EIINECS: European Interest of Existing Commercial Chemical Substances
ELINICS: European List of Notified Chemical Substances
ELINICS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NIPPA: National Fire Protection Association (USA)
HMIS: Haardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
VPNE: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSH: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit (Contd. of page 6)

· * Data compared to the previous version altered.

