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(Contd. of page 1)

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

4 First-aid measures

Description of first aid measures

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

· After eve contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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

Use fire fighting measures that suit the environment.

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

· Special hazards arising from the substance or mixture

· Advice for firefighters

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

6 Accidental release measures

· Personal precautions, protective equipment

and emergency procedures Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Methods and material for containment and

cleaning up:

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

Use neutralizing agent.

Dispose contaminated material as waste according to item 13. Reference to other sections

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 measures required.

· 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:

· Information about storage in one common

No special requirements.

Not required.

storage facility:

· Further information about storage conditions: Protect from frost.

Keep receptacle tightly sealed. Store in dry conditions.

Store in a cool place.

(Contd. on page 3)

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· Product identifier

HERCULAN AP FC · Trade name:

Article number:

290114 1/17

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.

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

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 classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS05 Danger

Hazard-determining components of labeling:

H318 Causes serious eve damage.

Wear eye protection / face protection.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

NFPA ratings (scale 0 - 4)

1 Health = 1

Health = 1 Fire = 1 Reactivity = 0

Fire = 1 Reactivity = 0

Results of PBT and vPvB assessment

Not applicable. Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: There are no additional ingredients present which are classified as hazardous to health or the environment and on this basis need to be mentioned in this section.

· Dangerous components:

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Eye Dam. 1, H318 50 - 100%

(Contd. on page 2)

Energieweg 6

Information department:

Eye Dam. 1 H318 Causes serious eye damage.

I abel elements GHS label elements

Signal word

Hazard statements

Precautionary statements

Classification system:

· HMIS-ratings (scale 0 - 4)

Other hazards

PBT:

vPvB:



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Specific end use(s) No further relevant information available. (Contd. of page 2)

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.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes.

Avoid contact with the eves and skin.

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

Protection of hands:

Material of gloves

Combination filter A-P2



Protective aloves

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

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.

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:

Penetration time of glove material

Nitrile rubber, NBR Natural rubber, NR

Eye protection:

Fightly sealed goggles

Body protection:



Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:

Form: Fluid

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		(Contd. of page
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:	120 °C (248 °F)	
· Flash point:	110 °C (230 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
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:	Not determined.	
Density at 20 °C (68 °F):	1.03 g/cm³ (8.595 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:	5.4 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

Thermal decomposition / conditions to be

avoided:

· Possibility of hazardous reactions

Incompatible materials:

· Hazardous decomposition products:

· Conditions to avoid

No dangerous reactions known. No further relevant information available.

No further relevant information available. No dangerous decomposition products known.

No decomposition if used according to specifications.

11 Toxicological information

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

on the skin: No irritant effect.

on the eye: Strong irritant with the danger of severe eye injury.

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Sensitization: No sensitizing effects known.

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods

No further relevant information available.

No further relevant information available.

No further relevant information available.

No further relevant information available

for preparations:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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: Persistence and degradability

Behavior in environmental systems:

Bioaccumulative potential

Mobility in soil Additional ecological information:

General notes:

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

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PRT.

Not applicable. vPvR: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

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

cleaning.

· 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 **HERCUL**

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Special precautions for user Not applicable

· Transport in bulk according to Annex II of MARPOL73/78 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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms GHS05 · Signal word Danger

· Hazard-determining components of labeling: [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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

· National regulations: · Water hazard class:

· voc · VOC EU [%] 0.00 %

· VOC USA 0.0 g/l / 0.00 lb/gl

· VOC CH 0.00 %

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

· Date of preparation / last revision 08/02/2016 / 16

· 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)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

ADIR: Accord europeen sur le transport des marchandis International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association

Dr. Michael Kissel

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 OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

· * Data compared to the previous version altered.

