Hercul

Safety Data Sheet acc. to OSHA HCS

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Trade name: HERCULAN FC 4000 { A }

	P362+P364 P405 P501	(Contd. of page 1) Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/
· Classification system:		international regulations.
· NFPA ratings (scale 0 - 4)		$ Health = 1 \\ Fire = 1 \\ Reactivity = 0 $
· HMIS-ratings (scale 0 - 4)	HEALTH 1 FIRE 1 REACTIVITY 0	Health = 1 Fire = 1 Reactivity = 0
· Other hazards	-	
 Results of PBT and vPvB assessment 		
· PBT:	Not applicable).
· vPvB:	Not applicable	a.
3 Composition/information on ingredie	ents	
· Chemical characterization: Mixtures · Description:		additional ingredients present which are classified as hazardous to health or the ind on this basis need to be mentioned in this section.

· De

Dangerou	s components:	
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)	25 - 100%
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
14808-60-7	Quartz (SiO2)	10 - 25%
	💩 Carc. 1A, H350	
	Phenol, methylstyrenated	5 - 10%
	🚯 Skin Irrit. 2, H315; Skin Sens. 1, H317	
	1,6 hexandiglycidylether	2.5 - 5%
	🐼 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
· 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:	Immediately remove any clothing soiled by the product.
After inhalation:	Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
	Immediately rinse with water.
· After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, 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.

(Contd. on page 3)

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Identification	
Product identifier	
	HERCULAN FC 4000 { A }
Trade name: Article number:	<u>HERCOLAN FC 4000 { A }</u> 603750/20
Application of the substance / the mixture	603750/20 Coating compound/ Surface coating/ paint
Details of the supplier of the safety data she Manufacturer/Supplier:	et
manufacturer/Supplier.	HERCULAN B.V.
	Energieweg 6
	4231 DJ Meerkerk
	The Netherlands Phone +31 183 354700
	Fibile +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
	0r
	+31 (0) 183 354 700 [Mo - Fr. 8 - 17 o'clock] - HERCULAN
GHS08 Health hazard Carc. 1A H350 May cause cancer.	
GHS07	
GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	ion.
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti	ion.
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements	ion.
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms	The product is classified and labeled according to the Globally Harmonized System (G
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms Signal word	The product is classified and labeled according to the Globally Harmonized System (G GHS07, GHS08 Danger
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms Signal word	The product is classified and labeled according to the Globally Harmonized System (G GHS07, GHS08 Danger : Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)
Skin Irrit. 2 H315 Causes skin irritation.	The product is classified and labeled according to the Globally Harmonized System (G GHS07, GHS08 Danger : Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Phenol, methylstyrenated
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling.	The product is classified and labeled according to the Globally Harmonized System (G GHS07, GHS08 Danger : Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Phenol, methylstyrenated 1,6 hexandiglycidylether
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reacti Label elements GHS label elements Hazard pictograms Signal word	The product is classified and labeled according to the Globally Harmonized System (G GHS07, GHS08 Danger : Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Phenol, methylstyrenated

H350 May cause cancer.

Avoid breathing dust/fume/gas/mist/vapors/spray

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

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

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

Contaminated work clothing must not be allowed out of the workplace.

Do not handle until all safety precautions have been read and understood.

(Contd. on page 2) -us-

Wear protective gloves. Wear eye protection / face protection.

Wash thoroughly after handling.

Obtain special instructions before use.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

IF ON SKIN: Wash with plenty of water.

P261

P280

P280 P264

P272

P201

P202

P321

P363

P308+P313

P333+P313

P337+P313

P302+P352

· Precautionary statements

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Trade name: HERCULAN FC 4000 { A }		Trade name: HERCULAN FC 4000 { A }	
· Special hazards arising from the substance o	(Contd. of page 2)	· Breathing equipment:	(Contd. of page 3)
mixture Advice for firefighters	Formation of toxic gases is possible during heating or in case of fire.		Only during spraying without adequate removal by suction.
· Protective equipment:	Do not inhale explosion gases or combustion gases.		Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present.
6 Accidental release measures		Recommended filter device for short term use:	Combination filter A-P2
Personal precautions, protective equipment and emergency procedures Environmental precautions:	Not required. Do not allow to enter sewers/ surface or ground water.	· Protection of hands:	Protective gloves
• Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.	· Material of gloves	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
· Reference to other sections	Ensure adequate ventilation. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.	Ponotration time of clove material	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.
Thandling and starses	See Section 13 for disposal information.	· 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
7 Handling and storage		· As protection from splashes gloves made of	penetration time, is recommended.
 Handling: Precautions for safe handling 	No special measures required.	the following materials are suitable:	Nitrile rubber, NBR Natural rubber, NR
	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.	· Eye protection:	Tightly sealed goggles
 Information about protection against explosions and fires: 	Keep respiratory protective device available.	· Body protection:	
Conditions for safe storage, including any inc Storage:	compatibilities		Protective work clothing
 Requirements to be met by storerooms and receptacles: 	No special requirements.	• O Bhysical and shamias! proparties	
 Information about storage in one common storage facility: 	Not required	9 Physical and chemical properties	
· Further information about storage conditions	Not required. Protect from frost.	 Information on basic physical and chemical p Concret Information 	roperties
	Keep receptacle tightly sealed.	General Information Appearance:	
	Store in dry conditions. Store in a cool place.	Form:	Fluid
 Specific end use(s) 	No further relevant information available.	Color:	According to product specification
		Odor: Odor threshold:	Characteristic Not determined.
8 Exposure controls/personal protection	on	· pH-value:	Not determined.
			Not determined.
Additional information about design of technical systems: Control parameters	No further data; see item 7.	Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 2230 °C (4046 °F)
Components with limit values that require		· Flash point:	201 °C (394 °F)
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.	· Flammability (solid, gaseous):	Not applicable.
· Additional information:	The lists that were valid during the creation were used as basis.	Ignition temperature:	> 300 °C (> 572 °F)
· Exposure controls		Decomposition temperature:	Not determined.
Personal protective equipment:	Keep ower for foodstiffe hereingen and food	Auto igniting:	Product is not selfigniting.
 General protective and hygienic measures: 	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.	Danger of explosion:	Product does not present an explosion hazard.
	Wash hands before breaks and at the end of work.	• Explosion limits:	
	Store protective clothing separately. Avoid contact with the eyes and skin.	Lower:	Not determined.
	Do not eat, drink, smoke or sniff while working. (Contd. on page 4)	Upper:	Not determined.
			(Contd. on page 5)

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Trade name: HERCULAN FC 4000 { A }

		(Contd. of page 4
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.93145 g/cm³ (16.118 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:	0.2 %	
Water:	0.0 %	
Solids content:	90.4 %	
· 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:	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.
Hazardous decomposition products:	No dangerous decomposition products known.

11 Toxicological information

 Information on toxicological effects Acute toxicity: 		
· LD/LC50 values that are relevant for class	ssification:	
25068-38-6 reaction product: bisphenol-A-(ep	ichlorhydrin) epoxy resin (MW = 700)	
Oral LD50 11400 mg/kg (rat)		
Dermal LD50 >2000 mg/kg (rat)		
Primary irritant effect:		
· on the skin:	Irritant to skin and mucous membranes.	
· on the eye:	Irritating effect.	
Sensitization:	Sensitization possible through skin contact.	
· Additional toxicological information:	The product shows the following dangers according to internally approved calc for preparations: Irritant	ulation methods
· Carcinogenic categories		
 IARC (International Agency for Research 	h on Cancer)	
14808-60-7 Quartz (SiO2)		1
1309-37-1 diiron trioxide		3
13463-67-7 titanium dioxide		2B
14808-60-7 Quartz (SiO2)		1
· NTP (National Toxicology Program)		
14808-60-7 Quartz (SiO2)		K
	(Cr	ontd. on page 6)
		US-



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Trade name: HERCULAN FC 4000 { A }

14808-60-7 Quartz (SiO2)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Aquatic toxicity: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Accute LC50 2 mg/L (Onchorynchus mykiss) (96 h) 2 mg/L (leuciscus idus) Acute EC50 1.8 mg/L (Daphnia Magna) (48h) 92/69/EEC-C.2 - EC50 11 mg/l (algae) 1.8 mg/L (daphnia) No further relevant information available. · Persistence and degradability No further relevant information available. · Behavior in environmental systems:	· Toxicity		
Accute LC50 2 mg/L (Onchorynchus mykiss) (96 h) 2 mg/L (leuciscus idus) Acute EC50 1.8 mg/L (Daphnia Magna) (48h) 92/69/EEC-C.2 - EC50 11 mg/l (algae) 1.8 mg/L (daphnia) 1.8 mg/L (daphnia) • 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 2 (Self-assessment): hazardous for water 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 · · PBT: Not applicable. · vPvB: Not applicable.	 Aquatic toxicity: 		
Acute EC50 2 mg/L (leuciscus idus) 92/69/EEC-C.2 - EC50 1.8 mg/L (Daphnia Magna) (48h) 92/69/EEC-C.2 - EC50 11 mg/L (algae) 1.8 mg/L (daphnia) No further relevant information available. • Persistence and degradability No further relevant information available. • Behavior in environmental systems: Bioaccumulative potential • Mobility in soil No further relevant information available. • Mobility in soil No further relevant information available. • 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. Danger to drinking water if even small quantities leak into the ground. • Results of PBT and vPvB assessment Not applicable. • vPvB: Not applicable.	25068-38-6 reaction pr	roduct: bisphenol-A-(epichlo	rhydrin) epoxy resin (MW = 700)
Acute EC50 1.8 mg/L (Daphnia Magna) (48h) 92/69/EEC-C.2 - EC50 11 mg/L (algae) 1.8 mg/L (daphnia) 1.8 mg/L (daphnia) Persistence and degradability No further relevant information available. Behavior in environmental systems: Bicaccumulative potential Bicaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water 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 Not applicable. VPvB: Not applicable.	Accute LC50	2 mg/L (Onchorynchus mykis	s) (96 h)
92/69/EEC-C.2 - ECS0 11 mg/l (algae) 1.8 mg/l (daphnia) No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems: No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water 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 Not applicable. vPvB: Not applicable.		2 mg/L (leuciscus idus)	
1.8 mg/l (daphnia) Persistence and degradability No further relevant information available. Behavior in environmental systems: No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water 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 Not applicable. vPvB: Not applicable.	Acute EC50	1.8 mg/L (Daphnia Magna) (4	8h)
Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. 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. Danger to drinking water if even small quantities leak into the ground. PBT: Not applicable. vPvB: Not applicable.	92/69/EEC-C.2 - EC50	11 mg/l (algae)	
Behavior in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water 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 Not applicable. vPvB: Not applicable.		1.8 mg/l (daphnia)	
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water 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 Not applicable. vPvB: Not applicable.	Persistence and de	gradability	No further relevant information available.
Mobility in soil No further relevant information available. Additional ecological information: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water, water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. Water course or sewage system. Do not allow product to reach ground water. D	 Behavior in environ 	nmental systems:	
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. Danger to drinking water if even small quantities leak into the ground. Results of PBT and vPvB assessment PBT: Not applicable. Not applicable.	 Bioaccumulative po 	otential	No further relevant information available.
General notes: Water hazard class 2 (Self-assessment): hazardous for water 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. PBT: Not applicable. vPvB: Not applicable.	 Mobility in soil 		No further relevant information available.
Constant of PBT and vPvB assessment PBT: vPvB: Not applicable. Not applicable. Not applicable.	 Additional ecologic 	al information:	
Danger to drinking water if even small quantities leak into the ground. • PBT: Not applicable. • vPvB: Not applicable.	 General notes: 		Water hazard class 2 (Self-assessment): hazardous for water
· Results of PBT and vPvB assessment · · · · · · · · · · · · · · · · · · ·			Do not allow product to reach ground water, water course or sewage system.
PBT: Not applicable. • vPvB: Not applicable.			Danger to drinking water if even small quantities leak into the ground.
vPvB: Not applicable.	 Results of PBT and 	vPvB assessment	
not applicable.	· PBT:		Not applicable.
	· vPvB:		Not applicable.
• Other adverse effects No further relevant information available.	· Other adverse effec	cts	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.
14 Transport information	
· UN-Number · DOT · ADR, IMDG, IATA	Void UN3082
· UN proper shipping name · DOT	Void

ADR	3082 Environmentally hazardous substances, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700))
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700),
	Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700))
	(Contd. on page 7)

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de name: HERCULAN FC 4000 { A	}
	(Contd. of page 6)
· Transport hazard class(es)	
· DOT · Class	Void
· Class · ADR	Void
· Class · Label	9 (M6) Miscellaneous dangerous substances and articles 9
IMDG, IATA	9 Miscellaneous dangerous substances and articles
· Label	9 milscellaneous dangerous substances and andres
· Packing group	
	Void
· ADR, IMDG, IATA	
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Yes
	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Danger code (Kemler): · EMS Number:	90 F-A.S-F
Stowage Category	A
Transport in bulk according to Annex the IBC Code	I of MARPOL73/78 and Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	- Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
·IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L -
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (MW = 700)), 9, III
Regulatory information	
· Safety, health and environmental regu · Sara	lations/legislation specific for the substance or mixture
· Section 355 (extremely hazardous sub	stances):
None of the ingredient is listed.	
	(Contd. on page 8)

Hercul Printing date 08/02/2016 Trade name: HERCULAN FC 4000 { A } · TSCA (Toxic Substances Control Act):

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Section 3	313 (Specific toxic chemical listings):
7727-43-7	barium sulphate, natural

7727-43-7 barium sulphate, natural 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) 14808-60-7 Quartz (SiO2) 68512-30-1 Phenol, methylstyrenated 1,6 hexandiglycidylether 68186-91-4 Copper chromite spinel pigment Cu(Cr,Fe)204 1309-37-1 diiron trioxide 20344-49-4 iron hydroxide oxide 13463-67-7 titanium dioxide 98-55-5 p-menth-1-en-8-ol · Proposition 65 · Chemicals known to cause cancer: 14808-60-7 Quartz (SiO2) 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) 7727-43-7 barium sulphate, natural D, CBD(inh), NL(oral) · TLV (Threshold Limit Value established by ACGIH) 14808-60-7 Quartz (SiO2) A2 A4 1309-37-1 diiron trioxide A4 A2 13463-67-7 titanium dioxide 14808-60-7 Quartz (SiO2) A4 80-56-8 pin-2(3)-ene · MAK (German Maximum Workplace Concentration) 14808-60-7 Quartz (SiO2) 1 ЗA 13463-67-7 titanium dioxide 14808-60-7 Quartz (SiO2) 1 · NIOSH-Ca (National Institute for Occupational Safety and Health) 14808-60-7 Quartz (SiO2) 13463-67-7 titanium dioxide 14808-60-7 Quartz (SiO2) GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS07, GHS08 Signal word Danger

> Phenol, methylstyrenated 1,6 hexandiglycidylether

H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H350 May cause cancer.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

P261

P280

· Hazard-determining components of labeling: Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)

· Hazard statements

· Precautionary statements

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altered.

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		(Contd. of page 8)
	P280	Wear eye protection / face protection.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing must not be allowed out of the workplace.
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
		If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P321	Specific treatment (see on this label).
	P363	Wash contaminated clothing before reuse.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P302+P352	IF ON SKIN: Wash with plenty of water.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.
		Dispose of contents/container in accordance with local/regional/national/ international regulations.
· National regulations:		
· Additional classification according to Decree		
on Hazardous Materials:	Carcinogenic haza	rdous material group III (dangerous).

· Information about limitation of use:	Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.		
· Technical instructions (air):	Class Share in %		
	NK 0.2		
· Water hazard class:	Water hazard class 2 (Self-assessment): hazardous for water.		
· VOC			

· VOC EU [%]	0.06 %
· VOC EU [g/l]	1.2 g/l
· VOC USA	1.2 g/l / 0.01 lb/gl
· VOC CH	0.06 %
 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	l
establish a legally valid contractual relationship.		

 Department issuing SDS: 	Environmental Department
· Contact:	Dr. Michael Kissel
 Date of preparation / last revision 	08/02/2016 / 19
Abbreviations and acronyms:	DdVU2/2016/ 19 RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International (XV Aviation Organisation) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail) IMDG: International Carriage of Dangerous Goods by Rail) IMDG: International Martime Code for Dangerous Goods by Caol) IDT US Department of Transport Association IATA: International Aritine Code for Dangerous Goods DOT. US Department of Transport Association IATA: International Aritines Code for Dangerous Goods ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Motif of Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (d
	Carc. 1A: Carcinogenicity – Category 1A
	(Contd. on page 10)

• * Data compared to the previous version

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