Hercul

Safety Data Sheet acc. to OSHA HCS

Page 1/8

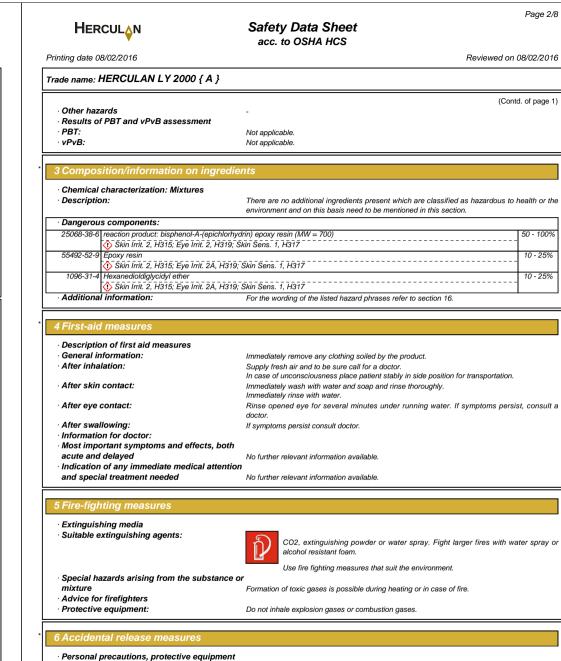
Reviewed on 08/02/2016

Printing date 08/02/2016

HERCULAN LY 2000 { A } 026851/8 Coating compound/ Surface coating/ paint	
eet	
HERCULAN B.V. Energieweg 6 4231 DJ Meerkerk The Netherlands Phone +31 183 354700 Fax: +31 183 354740 e-mail: info@herculan.com	
– Enviromental department +49 (0) 6131 19240 [24 h - 365 d] - Giftinformationszentrale Mainz or +31 (0) 183 354 700 [Mo - Fr. 8 - 17 oʻclock] - HERCULAN	
	026851/8 Coating compound/ Surface coating/ paint eet HERCULAN B.V. Energieweg 6 4231 DJ Meerkerk The Netherlands Phone +31 183 354700 Fax: +31 183 354740 e-mail: info@herculan.com

2 Hazard(s) identification

V		
Skin Irrit. 2 H315 Causes skin irritation.		
Eye Irrit. 2A H319 Causes serious eye irritation.		
Skin Sens. 1 H317 May cause an allergic skin reaction	n.	
Label elements		
GHS label elements	The product is	classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms	GHS07	
Signal word	Warning	
Hazard-determining components of labeling:	reaction produc	ct: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)
	Epoxy resin	
	Hexanedioldigl	ycidyl ether
Hazard statements	H315 Causes s	skin irritation.
	H319 Causes s	serious eye irritation.
	H317 May cau	se an allergic skin reaction.
Precautionary statements	P261	Avoid breathing dust/fume/gas/mist/vapors/spray
	P280	Wear protective gloves.
	P280	Wear eye protection / face protection.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing must not be allowed out of the workplace.
	P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove con
	P321	lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).
	P321 P363	Wash contaminated clothing before reuse.
	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.
	P501	Dispose of contents/container in accordance with local/regional/nation international regulations.
Classification system:		-
NFPA ratings (scale 0 - 4)		Health = 1
		Fire = 1
		Reactivity = 0
HMIS-ratings (scale 0 - 4)	HEALTH 1	Health = 1
	FIRE 1	Fire = 1
		Reactivity = 0



 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).
	Dispose contaminated material as waste according to item 13.
	Ensure adequate ventilation.

(Contd. on page 3)

Page 2/8

(Contd. of page 1)

50 - 100%

10 - 25%

10 - 25%

	Page 3/8		Page 4/8
Hercul <mark>o</mark> n	Safety Data Sheet acc. to OSHA HCS	HERCUL	Safety Data Sheet acc. to OSHA HCS
Printing date 08/02/2016	Reviewed on 08/02/2016	Printing date 08/02/2016	Reviewed on 08/02/2016
Trade name: HERCULAN LY 2000 { A }		Trade name: HERCULAN LY 2000 { A }	
· Reference to other sections	(Contd. of page 2) See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	· Penetration time of glove material	(Contd. of page 3) 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 undel practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the
7 Handling and storage		 As protection from splashes gloves made of the following materials are suitable: 	penetration time, is recommended. Nitrile rubber, NBR
· Handling: · Precautions for safe handling	No special measures required. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	· Eye protection:	Natural rubber, NR Natural rubber, NR Tightly sealed goggles
 Information about protection against explosions and fires: Conditions for safe storage, including any in 	No special measures required.	· Body protection:	Protective work clothing
 Storage: Requirements to be met by storerooms and receptacles: 	No special requirements.	• 9 Physical and chemical properties	W
Information about storage in one common storage facility: Further information about storage conditions	Not required. 5: Protect from frost. Keep receptacle tightly sealed. Store in dry conditions.	Information on basic physical and chemical p General Information Appearance: Form:	Fluid
· Specific end use(s)	Store in a cool place. No further relevant information available.	Color: · Odor: · Odor threshold:	According to product specification Characteristic Not determined.
8 Exposure controls/personal protection	on la	· pH-value:	Not determined.
Additional information about design of technical systems:	No further data; see item 7.	Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 201 °C (394 °F)
Control parameters Components with limit values that require monitoring at the workplace:		Flash point:	252 °C (486 °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: Decomposition temperature:	> 300 °C (> 572 °F)
 Exposure controls Personal protective equipment: 		• Auto igniting:	Not determined.
General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed.	Danger of explosion:	Product is not selfigniting. Product does not present an explosion hazard.
	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 and skin. Do not eat, drink, smoke or sniff while working.	Explosion limits: Lower: Upper:	Not determined. Not determined.
· Breathing equipment:		· Vapor pressure:	Not determined.
	Only during spraying without adequate removal by suction. Use suitable respiratory protective device in case of insufficient ventilation.	Density at 20 °C (68 °F): Relative density Vapor density	1.14 g/cm³ (9.513 lbs/gal) Not determined. Not determined.
Booommonded filter device for short torm	Use suitable respiratory protective device when high concentrations are present.	· Evaporation rate	Not determined.
Recommended filter device for short term use: Protection of hands:	Combination filter A-P2	· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
	Protective gloves	· Partition coefficient (n-octanol/water):	Not determined.
• 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	 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	800 mPas Not determined.
	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.	Solvent content: Organic solvents:	0.0 %
	(Contd. on page 4)		(Contd. on page 5)

Hercul

Safety Data Sheet acc. to OSHA HCS

Page 5/8

Reviewed on 08/02/2016

(Contd. of page 4)

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Herculon	Page 6/k Safety Data Sheet acc. to OSHA HCS
rinting date 08/02/2016	Reviewed on 08/02/2016
rade name: HERCULAN LY 2000 { A }	
· Additional ecological information:	(Contd. of page 5)
· 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: 	
· vPvB:	Not applicable. Not applicable.
· Other adverse effects	No further relevant information available.
3 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.
4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN3082
· UN proper shipping name · DOT	
· ADR · IMDG	Environmentally hazardous substances, liquid, n.o.s. 3082 Environmentally hazardous substances, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700), Epoxy resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700),
ИАТА	(reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 760), ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700), Epoxy resin)
· Transport hazard class(es)	
· DOT, IMDG, IATA	
(M), (E)	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
<u>به چ</u>	
· Class · Label	9 (M6) Miscellaneous dangerous substances and articles 9
· Packing group · DOT, ADR, IMDG, IATA	Ш
· Environmental hazards:	Product contains environmentally hazardous substances: reaction product:
Marine pollutant:	bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700) Yes Sirrabol (fich and too)
	Symbol (fish and tree)

Printing date 08/02/2016

Solids content:

Water:

_

Trade name: HERCULAN LY 2000 { A }

0.0 % 100.0 % • 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

· LD/LC50 values that are relevant for classi	fication:
25068-38-6 reaction product: bisphenol-A-(epich	lorhydrin) epoxy resin (MW = 700)
Oral LD50 11400 mg/kg (rat) Dermal LD50 >2000 mg/kg (rat)	
Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant to skin and mucous membranes. Irritating effect. Sensitization possible through skin contact. The product shows the following dangers according to internally approved calculation methods for preparations:
· Carcinogenic categories	Irritant
IARC (International Agency for Research o None of the ingredients is listed.	n Cancer)

· 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	· Aquatic toxicity:			
25068-38-6 reaction	on product: bisphenol-A-(ep	ichlorhydrin) epoxy resin (MW = 700)		
Accute LC50	2 mg/L (Onchorynchus i	nykiss) (96 h)		
	2 mg/L (leuciscus idus)	2 mg/L (leuciscus idus)		
Acute EC50	1.8 mg/L (Daphnia Magi	1.8 mg/L (Daphnia Magna) (48h)		
92/69/EEC-C.2 - E	50 11 mg/l (algae)			
	1.8 mg/l (daphnia)	1.8 mg/l (daphnia)		
· Persistence and	d degradability	No further relevant information available.		
 Behavior in env 	/ironmental systems:			
 Bioaccumulativ 	ve potential	No further relevant information available.		
 Mobility in soil 		No further relevant information available.		
			(Contd. on page 6)	

HERCUL

Safety Data Sheet acc. to OSHA HCS

Page 7/8

Reviewed on 08/02/2016

Printing date 08/02/2016

Trade name: HERCULAN LY 2000 { A }

	(Contd. of page 6
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· Stowage Category	Α
· Transport in bulk according to Annex II of MA	RPOL73/78 and
the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Remarks:	Special marking with the symbol (fish and tree).
· ADR	
· Excepted quantities (EQ)	-
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
 Excepted quantities (EQ) 	-
	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), EPOXY RESIN), 9, III

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):
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)
55492-52-9 Epoxy resin
· 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.
(Contd. on page 8)

Hercul

Safety Data Sheet acc. to OSHA HCS

Printing date 08/02/2016

Reviewed on 08/02/2016

		(Contd. of page 7)		
· 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	GHS07			
· Signal word	Warning			
· Hazard-determining components of labeling:	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (MW = 700)			
	Epoxy resin			
	Hexanedioldiglycidyl ether			
· Hazard statements	H315 Causes skin irritation.			
	H319 Causes serious eye irritation.			
	H317 May cause an allergic skin reaction.			
 Precautionary statements 	P261	Avoid breathing dust/fume/gas/mist/vapors/spray		
	P280	Wear protective gloves.		
	P280 P264	Wear eye protection / face protection. Wash thoroughly after handling.		
	P204 P272			
	P272 Contaminated work clothing must not be allowed out of the workplace. P305+P351+P338 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.		
	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.		
	P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.		
· National regulations:				
· Water hazard class:	Water hazard class 2 (Self-assessment): hazardous for water.			
· VOC				
· VOC EU [%]	0.00 %			
· VOC USA	0.0 q/l / 0.00 lb/gl			
VOC CH	0.00 %			
· Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.			
	, chemical Gal	ory needed non has not been danied out.		
6 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
· Contact:	Dr. Michael Kissel
 Date of preparation / last revision 	08/02/2016 / 7
Abbreviations and acronyms: Abbreviations and acronyms: * Data compared to the previous version	U6/02/2016 / / ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IIMDS: International Maritmaport Association ATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EIINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LCSO: Lethal concentration, 50 percent DSO: Lethal coace, Percent PBT: Persistent, Bloaccumulative and Toxic VPA: very Persistent, Bloaccumulative and Toxic VPA: very Persistent, Bloaccumulative and Toxic VPA: very Persistent, Bloaccumulative Alenth TUV: Threshold Limit Value PEI: Permissible Exposure Limit REL: Recommended Reposure Limit REL: Recommended Reposu
altered.	