HERCUL

Safety Data Sheet acc. to OSHA HCS

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Hercul

Printing date 08/03/2016

Safety Data Sheet acc. to OSHA HCS

Reviewed on 08/02/2016

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· Product identifier	
· Trade name:	HERCULAN EX 800 { B }
· Article number:	908300/19
· Application of the substance	
 Details of the supplier of the Manufacturer/Supplier: 	safety data sheet
	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	
0 7 7	+49 (0) 6131 19240 [24 h - 365 d] - Giftinformationszentrale Mainz
	or +31 (0) 183 354 700 [Mo - Fr. 8 - 17 oʻclock] - HERCULAN
	+31 (0) 183 334 700 [INIO - FI. 8 - 17 0 CIOCK] - HERCOLAN
2 Hozord/a) identification	
2 Hazard(s) identification	
2 Hazard(s) identification	
· Classification of the substant	
Classification of the substant	ce or mixture
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled. of causing cancer.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of STOT RE 2 H373 May cause d	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled. of causing cancer.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled. of causing cancer.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of STOT RE 2 H373 May cause d	ce or mixture illergy or asthma symptoms or breathing difficulties if inhaled. If causing cancer. famage to organs through prolonged or repeated exposure.
Classification of the substant GHS08 Health hazard Resp. Sens. 1 H334 May cause a Carc. 2 H351 Suspected of STOT RE 2 H373 May cause d	ce or mixture allergy or asthma symptoms or breathing difficulties if inhaled. if causing cancer. famage to organs through prolonged or repeated exposure. haled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.	
Label elements GHS label elements Hazard pictograms Signal word	The product is classified and labeled according to the Globally Harmonized System (GHS). GHS07, GHS08 Danger
 Hazard-determining components of labeling: 	4.4'-Methylenediphenyldiisocyanate, oligomeric reaction products with butane-1, 3-diol, 2,4'- diisocyanatodiphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol andpropane-1,2-diol diphenylmethane-4,4'-diisocyanate
· Hazard statements	H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H315 Suspected of causing cancer. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements	P260 Do not breathe dust/fume/gas/mist/vapors/spray. P284 [In case of inadequate ventilation] wear respiratory protection. P280 Wear protective gloves. P280 Wear eye protection / face protection. P284 [Use only outdoors or in a well-ventilated area. (Contd. on page 2) (Contd. on page 2)

		(Contd. of page
	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
	P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove con lenses, if present and easy to do. Continue rinsing.
	P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable breathing.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	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.
	P314	Get medical advice/attention if you feel unwell.
	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.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P501	Dispose of contents/container in accordance with local/regional/nation
		international regulations.
Classification system:		
NFPA ratings (scale 0 - 4)	۲ <u>ا</u>	Health = 1
		Fire = 1
		Reactivity = 0
HMIS-ratings (scale 0 - 4)	HEALTH *3	Health = *3
	FIRE 1	Fire = 1
	REACTIVITY 0	Reactivity = 0
Other hazards	-	
Results of PBT and vPvB assessment		
PBT:	Not applicable.	
vPvB:	Not applicable.	

3 Composition/information on ingredients

Description:	There are no additional ingredients present which are classified as hazardous to environment and on this basis need to be mentioned in this section.	nealth or th
Dangerous components:		
methylenebis(4-isocyanatobenzel	ate, oligomeric reaction products with butane-1, 3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'- ne) homopolymer, [[methylethylene]bis(oxy]]dipropanol andpropane-1,2-diol , H351; STOT RE 2, H373; () Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin 5	50 - 100%
101-68-8 diphenylmethane-4,4'-diisocyana	te , H351; STOT RE 2, H373; 🕐 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin	25 - 100%

4 First-aid measures

· Description of first aid measures General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. · 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. (Contd. on page 3)

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After swallowing: Information for doctor:	If symptoms persist consult doctor.	8 Exposure controls/personal protection	on
 Most important symptoms and effects, both acute and delayed 	No further relevant information available.	· Additional information about design of	
Indication of any immediate medical attention and special treatment needed		technical systems:	No further data; see item 7.
	No further relevant information available.	Control parameters Components with limit values that require	
5 Fire-fighting measures		monitoring at the workplace:	The following constituent is the only constituent of the product which has a PEL, TLV or other
· Extinguishing media			recommended exposure limit. At this time, the remaining constituent has no known exposure limits.
Suitable extinguishing agents:	C02, extinguishing powder or water spray. Fight larger fires with water spray or	101-68-8 diphenylmethane-4,4'-diisocyanate	
	alcohol resistant foam.	PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm REL Long-term value: 0.05 mg/m³, 0.005 ppm	
	Use fire fighting measures that suit the environment.	Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min	
 Special hazards arising from the substance of mixture 	r During heating or in case of fire poisonous gases are produced.	TLV Long-term value: 0.051 mg/m³, 0.005 ppm	
	Formation of toxic gases is possible during heating or in case of fire.	Additional information:	The lists that were valid during the creation were used as basis.
Advice for firefighters Protective equipment:	Mount respiratory protective device.	· Exposure controls	
	Do not inhale explosion gases or combustion gases.	Personal protective equipment: General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed.
			Immediately remove all soiled and contaminated clothing.
6 Accidental release measures			Wash hands before breaks and at the end of work. Store protective clothing separately.
Personal precautions, protective equipment			Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.
and emergency procedures · Environmental precautions:	Mount respiratory protective device. Do not allow to enter sewers/ surface or ground water.	· Breathing equipment:	
Methods and material for containment and			Only during spraying without adequate removal by suction.
cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.		Use suitable respiratory protective device in case of insufficient ventilation.
	Ensure adequate ventilation.	· Recommended filter device for short term	Use suitable respiratory protective device when high concentrations are present.
· Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.	use:	Combination filter A-P2
	See Section 13 for disposal information.	· Protection of hands:	
			Protective gloves
7 Handling and storage			The glove material has to be impermeable and resistant to the product/ th substance/ the preparation.
 Handling: Precautions for safe handling 	No openial personation required	· Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on furthe
riecautions for sale handling	No special measures required. Ensure good ventilation/exhaustion at the workplace.		marks of quality and varies from manufacturer to manufacturer. As the product is a preparatio of several substances, the resistance of the glove material can not be calculated in advanc
	Open and handle receptacle with care. Prevent formation of aerosols.		and has therefore to be checked prior to the application.
Information about protection against		Penetration time of glove material	The exact break trough time has to be found out by the manufacturer of the protective glove and has to be observed.
explosions and fires:	Keep respiratory protective device available.		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
 Conditions for safe storage, including any inc Storage: 	compatibilities		penetration time, is recommended.
		• As protection from splashes gloves made of	•
Requirements to be met by storerooms and		the following materials are suitable:	Nitrile rubber NBR
receptacles:	No special requirements.	the following materials are suitable:	Nitrile rubber, NBR Natural rubber, NR
receptacles: Information about storage in one common storage facility:	Not required.	the following materials are suitable: Eye protection:	Natural rubber, NR
receptacles: Information about storage in one common	Not required. Protect from frost.		
receptacles: Information about storage in one common storage facility:	Not required. Protect from frost. Keep receptacle tightly sealed. Store in dry conditions.		Natural rubber, NR
receptacles: Information about storage in one common storage facility:	Not required. Protect from frost. Keep receptacle tightly sealed.	Eye protection:	Natural rubber, NR

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Hazardous decomposition products:

No dangerous decomposition products known.

· Information of	n toxicological e	effects	
· Acute toxicity			
· LD/LC50 value	es that are relev	ant for classifica	ation:
			action products with butane-1, 3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'-
Oral	LD50	ne) nomopolymer, > 5000 mg/kg (rat)	, [(methylethylene)bis(oxy)]dipropanol andpropane-1,2-diol
Dermal	LD50	> 9400 mg/kg (rat > 9400 mg/kg (rat	
Inhalative	LC50/4 h	0.49 mg/l (rat)	
milalative	0ECD 453		ars - 5 days per week)
		sensitizing (Guine	
Irritation of skin	OECD 404	irriterend (rabbit)	
	OECD 406	sensibiliserend (h	uit)
Irritation of eyes	OECD 405	niet irriterend (rab	
	0ECD 474	negativ	
	STOT repeated	Categorie 2	
101-68-8 dipher	ı ıylmethane-4,4'-di	isocyanate	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>9400 mg/kg (rab	bit)
Inhalative	LC50/4 h	0.31 mg/l (rat)	
	LC50/1 h	2.24 mg/l (rat)	
	OECD 453	positive (rat) (2 ye	ears - 5 days per week)
	without guidelines	Sensitising (Guine	əa pig)
Irritation of skin	OECD 406	Not sensitising (G	uinea pig)
	0ECD 474	- (Mammalian Ery	throcyte Micronucelus Test)
Primary irritar	nt effect:		
• on the skin:			Irritant to skin and mucous membranes.
 on the eye: Sensitization: 			Irritating effect. Sensitization possible through inhalation.
Sensilization.			Sensitization possible through kin contact.
· Additional tox	cicological inform	mation:	The product shows the following dangers according to internally approved calc for preparations: Hamful Irritant
· Carcinogenic	categories		
-	tional Agency fo	r Research on (Cancer)
•	nylmethane-4,4'-diis		,
	Toxicology Pro	-	
None of the ingre		J,	
ţ	cupational Safet	ty & Hoalth Adm	inistration)
	•	y o nearn Adm	mnsuauony
None of the ingre	รฉเฮาแจ เจ แชเยน.		
12 Ecological	information		
, in the second s	mormation		
Toxicity			
· Aquatic toxici			
			action products with butane-1, 3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'

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9 Physical and chemical properties		
Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form: Color:	Fluid	
· Odor:	According to product specification Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	>300 °C (>572 °F)	
· Flash point:	235 °C (455 °F)	
 Flammability (solid, gaseous): 	Not applicable.	
· Ignition temperature:	520 °C (968 °F)	
 Decomposition temperature: 	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	0.4 Vol %	
Upper:	0.0 Vol %	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.2 g/cm³ (10.014 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined.	
•	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:	60.6 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity	No further relevant information available.	
· Chemical stability		
Thermal decomposition / conditions to b	e de la constante de	
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.	
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OECD 202 (static) >1000 mg/l (daphnia) (EC50) OECD 203 (static) >1000 mg/l (fish) (LC50)		· UN "Model Regulation":	Void
OECD 209 (static) >100 mg/l (Bacterie) (EC50) OECD 211 (static) ≥ 10 mg/l (daphnia) (NOEC) OECD 302 C 0 %		15 Regulatory information	
OECD 471 negativ 101-68-8 diphenylmethane-4,4'-diisocyanate		Safety, health and environmental regulations/ Sara	legislation specific for the substance or mixture
LogPow 200 BCF		Section 355 (extremely hazardous substances	3):
OECD 202 > 1000 mg/l (daphnia)		None of the ingredient is listed.	,
OECD 203 > 1000 mg/l (fish)		Section 313 (Specific toxic chemical listings):	
OECD 209 > 100 mg/l (Bacterie)		101-68-8 diphenylmethane-4,4'-diisocyanate	
OECD 211 > 10 mg/l (Daphnia Magna)			
OECD 302 C 0 % (Modified MITI Test (II))		TSCA (Toxic Substances Control Act):	
Persistence and degradability	No further relevant information available.	101-68-8 diphenylmethane-4,4'-diisocyanate	
Behavior in environmental systems:		Proposition 65	
· Bioaccumulative potential	No further relevant information available.	· Chemicals known to cause cancer:	
· Mobility in soil	No further relevant information available.	None of the ingredients is listed.	
 Additional ecological information: 		Chemicals known to cause reproductive toxic	ity for females:
· General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water	None of the ingredients is listed.	.,
	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	Chemicals known to cause reproductive toxic	ity for malacy
· Results of PBT and vPvB assessment	sowago system.		ity for males:
· PBT:	Not applicable.	None of the ingredients is listed.	
· vPvB:	Not applicable.	 Chemicals known to cause developmental tox 	ricity:
· Other adverse effects	No further relevant information available.	None of the ingredients is listed.	
		· Cancerogenity categories	
13 Disposal considerations		• EPA (Environmental Protection Agency)	
15 Disposal considerations		101-68-8 diphenylmethane-4,4'-diisocyanate	D, CBD
· Waste treatment methods			
· Recommendation:	Must not be disposed of together with household garbage. Do not allow product to reach	• TLV (Threshold Limit Value established by AC	GIH)
	sewage system.	None of the ingredients is listed.	
 Uncleaned packagings: 		• MAK (German Maximum Workplace Concentra	ation)
· Recommendation:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper	101-68-8 diphenylmethane-4,4'-diisocyanate	4
	cleaning.	NIOSH-Ca (National Institute for Occupational	Safety and Health)
		None of the ingredients is listed.	• •
* 14 Transport information		· GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
		Hazard pictograms	GHS07, GHS08
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	Signal word	Danger
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	Hazard-determining components of labeling:	4.4'-Methylenediphenyldiisocyanate, oligomeric reaction products with butane-1, 3-diol, 2,4'- diisocyanatodiphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol andpropane-1,2-diol
· Transport hazard class(es)			diphenylmethane-4,4'-diisocyanate
DOT, ADR, ADN, IMDG, IATA		· Hazard statements	H332 Harmful if inhaled. H315 Causes skin irritation.
Class	Void		H315 Gauses skin irritation. H319 Causes serious eye irritation.
			H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
· Packing group · DOT, ADR, IMDG, IATA	Void		H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.
Environmental hazards: Marine pollutant:	No	Precautionary statements	H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. P260 Do not breathe dust/fume/gas/mist/vapors/spray.
Special precautions for user	Not applicable.		P260 Do not breathe dust/fume/gas/mist/vapors/spray. P284 [In case of inadequate ventilation] wear respiratory protection.
			P280 Wear protective gloves.
• Transport in bulk according to Annex II of N the IBC Code	Not applicable.		P280 Wear eye protection / face protection. P264 Wash thoroughly after handling.
	(Contd. on page 8)		P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P201 Obtain special instructions before use.
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breathing.

Store locked up.

international regulations.

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

Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/

Get medical advice/attention if you feel unwell.

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

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

IF ON SKIN: Wash with plenty of water.

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STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

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ata compared	to	the	previous	versi
ered.				

If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for

· National regulations:

· Technical instructions (air):

Class Share in % 1

P202

P312

P321

P363

P314

P405

P501

P342+P311

P304+P340

P308+P313

P333+P313

P337+P313

P302+P352

P362+P364

P403+P233

Water hazard class:

34.1 Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive

regulations	No sales to private
· VOC	
· VOC EU [%]	0.00 %
· VOC USA	0.0 g/l / 0.00 lb/gl
· VOC CH	0.00 %
 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
Contact:	Dr. Michael Kissel
Date of preparation / last revision	08/03/2016 / 18
Date of preparation / last revision Abbreviations and acronyms:	RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport do Dangerous Goods by Ral) ADR: Accord european sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDC: International Martime Code for Dangerous Goods D07: US Department of Transport Association ACGH: Hamerican Conference of Governmental Industrial Hygienists ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NPPA: National Fire Protection Association (USA) HMIS: Learndous Materials Identification System (USA) LOS0: Lethal concentration, 50 parcent LOS0: Lethal concentration, 50 parcent USO: Very Persistent, Bioaccumulative and Toxic VPR: Very Persistent, Bioaccumulative and Toxic VPR: Very Persistent, Bioaccumulative and Toxic VPR: Very Persistent, Bioaccumulative Inth REL. Permissible Exposure Limit Acute Toxick, A chealt toxicky - Category 4 Skin Int: 2. Skin corresinvintriation - Category 2 Eye Int: 2
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 (Control on page 10)
	(Contd. on page 10)

(Contd. of page 8) Do not handle until all safety precautions have been read and understood. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

sion