

1 Identification

· Product identifier

HERCULAN CLEANER DS

· Trade name:

020075/11

· 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:

—
Environmental department

· Emergency telephone number:

+49 (0) 6131 19240 [24 h - 365 d] - Giftinformationszentrale Mainz
or
+31 (0) 183 354 700 [Mo - Fr. 8 - 17 o'clock] - HERCULAN

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Flam. Liq. 4 H227 Combustible liquid.

· Label elements

· GHS label elements

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

· Hazard pictograms

GHS07, GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

ethanol

· Hazard statements

H227 Combustible liquid.
H319 Causes serious eye irritation.
H350 May cause cancer.

· Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.
P280 Wear protective gloves / eye protection / face protection.
P264 Wash thoroughly after handling.
P201 Obtain special instructions before use.
P202 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 lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 1
Fire = 2
Reactivity = 0

(Contd. on page 2)

US

Trade name: **HERCULAN CLEANER DS**

· HMIS-ratings (scale 0 - 4)

Health = 1
 Fire = 2
 Reactivity = 0

(Contd. of page 1)

· Other hazards

· Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

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:

34590-94-8 (2-methoxymethylethoxy)propanol	Flam. Liq. 4, H227	≤ 2.5%
64-17-5 ethanol	Flam. Liq. 2, H225; Carc. 1A, H350	≤ 2.5%
niet-ionogene oppervlakreactieve stoffen	Eye Dam. 1, H318; Acute Tox. 4, H302	≤ 2.5%
anionogene oppervlakreactieve stoffen	Eye Dam. 1, H318; Skin Irrit. 2, H315	≤ 2.5%
niet ionogene oppervlakreactieve stoffen	Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤ 2.5%

· 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 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.

· 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

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of water.

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)

US

Trade name: **HERCULAN CLEANER DS**

Reference to other sections (Contd. of page 2)
No dangerous substances are released.
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

Handling:
Precautions for safe handling No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.

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.
Keep receptacle tightly sealed.
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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/m ³ , 100 ppm Skin
REL	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin
TLV	Short-term value: 909 mg/m ³ , 150 ppm Long-term value: 606 mg/m ³ , 100 ppm Skin
64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

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 eyes and skin.
Do not eat, drink, smoke or sniff while working.

Trade name: **HERCULAN CLEANER DS**

Breathing equipment: (Contd. of page 3)
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: Combination filter A-P2

Protection of hands: Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 through 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

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid

Color: According to product specification

Odor: Characteristic

Odor threshold: Not determined.

pH-value at 20 °C (68 °F): 9.5

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 78 °C (172 °F)

Flash point: 61 °C (142 °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.

Trade name: HERCULAN CLEANER DS	
(Contd. of page 4)	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 20 °C (68 °F):	1.007 g/cm ³ (8.403 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	2.0 %
Water:	95.0 %
· 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	
· Information on toxicological effects	
· Acute toxicity:	
· Primary irritant effect:	
on the skin:	No irritant effect.
on the eye:	Irritating effect.
· Sensitization:	No sensitizing effects known.
· Additional toxicological information:	The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
64-17-5 ethanol	1
· 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:	No further relevant information available.
· Persistence and degradability	No further relevant information available.
· Behavior in environmental systems:	
· Bioaccumulative potential	No further relevant information available.

Trade name: HERCULAN CLEANER DS	
(Contd. of page 5)	
· Mobility in soil	No further relevant information available.
· Additional ecological information:	
· General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· Results of PBT and vPvB assessment	
· PBT:	Not applicable.
· vPvB:	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.
· Recommended cleansing agent:	Water, if necessary with cleansing agents.

14 Transport information	
· 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
· 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):	
34590-94-8 (2-methoxymethylethoxy)propanol	
64-17-5 ethanol	
7732-18-5 water, distilled, conductivity or of similar purity	

Trade name: HERCULAN CLEANER DS							
(Contd. of page 6)							
· 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: 64-17-5 ethanol							
· Carcinogenicity categories							
· EPA (Environmental Protection Agency) None of the ingredients is listed.							
· TLV (Threshold Limit Value established by ACGIH) 64-17-5 ethanol A3							
· MAK (German Maximum Workplace Concentration) 64-17-5 ethanol 5							
· 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, GHS08						
· Signal word	Danger						
· Hazard-determining components of labeling:	ethanol						
· Hazard statements	H227 Combustible liquid. H319 Causes serious eye irritation. H350 May cause cancer.						
· Precautionary statements	P210 Keep away from flames and hot surfaces. – No smoking. P280 Wear protective gloves / eye protection / face protection. P264 Wash thoroughly after handling. P201 Obtain special instructions before use. P202 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 lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P405 Store locked up. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.						
· National regulations:							
· Additional classification according to Decree on Hazardous Materials:	Carcinogenic hazardous 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):							
	<table border="1"> <thead> <tr> <th>Class</th> <th>Share in %</th> </tr> </thead> <tbody> <tr> <td>Wasser</td> <td>95.0</td> </tr> <tr> <td>NK</td> <td>2.0</td> </tr> </tbody> </table>	Class	Share in %	Wasser	95.0	NK	2.0
Class	Share in %						
Wasser	95.0						
NK	2.0						
· Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.						
· VOC							
· VOC EU [%]	2.00 %						
· VOC EU [g/l]	464.6 g/l						
· VOC USA	464.6 g/l / 3.88 lb/gal						
· VOC CH	2.00 %						
(Contd. on page 8)							

Trade name: HERCULAN CLEANER DS	
(Contd. of page 7)	
· 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	08/02/2016 / 10
· Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) HMS: 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 Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Carc. 1A: Carcinogenicity – Category 1A
· * Data compared to the previous version altered.	