

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	<i>Easysol Clean Liquid</i>
		0.2 Status	Active
		0.3 Version	6.1
		0.4 Version date	27-03-2023
1. Identification of the product and of the company			
1.1 Product identification			
Product name		<i>Easysol Clean Liquid</i>	
Trade name		<i>Easysol Clean Liquid</i>	
Article code		EASY00100 EASY00105	
Chemical description		Mixture	
UFI		US10-Y05U-A009-XK7J	
REACH registration number		-	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Care product.	
Use(s) advised against		Not identified.	
1.3 Details of the supplier of the safety data sheet			
Company identification		Name	Hofman Animal Care B.V.
Contact		Address	De Leemkoele 2
		Zip code	7468 DM
		Town	Enter
		Country	The Netherlands
		Telephone	+31-(0)548-545277
		E-mail	info@hofmananimalcare.nl
		Website	www.hofmananimalcare.com
1.4 Emergency telephone number			
Emergency telephone number		The Netherlands: National Poisoning Information Center – Utrecht TEL: +31 (0) 88 755 8000 Belgium: Antipoison Center – Brussels TEL: +32 (0)70 245 245 (Only for the purpose of informing medical personnel in case of acute intoxications)	

2. Hazards identification											
2.1	Classification of the substance or mixture <u>Classification according to Regulation (EC) no. 1272/2008:</u> Acute Tox. 3; Acute toxicity, category 3; H331 Skin Corr. 1A; Skin corrosion/irritation, category 1A; H314 Eye Dam. 1; Serious eye damage/eye irritation, category 1; H318 The full text of the (EU)H-statements can be found in section 16.										
2.2	Label elements <u>Labelling according to Regulation (EC) no. 1272/2008:</u> <table border="1"> <tr> <td>Hazardous component(s)</td><td>Acetic acid ... % Hydrogen chloride</td></tr> <tr> <td>Hazard pictogram(s)</td><td>  </td></tr> <tr> <td>Signal word</td><td>Danger</td></tr> <tr> <td>Hazard statements</td><td>H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.</td></tr> <tr> <td>Precautionary measures</td><td> P280 Wear protective gloves and eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container according to national waste disposal regulations. </td></tr> </table>	Hazardous component(s)	Acetic acid ... % Hydrogen chloride	Hazard pictogram(s)		Signal word	Danger	Hazard statements	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.	Precautionary measures	P280 Wear protective gloves and eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container according to national waste disposal regulations.
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3. Composition/information on ingredients

3.1	<u>Substances</u>	Not relevant (mixture).				
3.2	<u>Mixtures</u>	Mixture of the following hazardous components.				
Name component(s)	weight %	CAS no.	EINECS no.	Index no.	Reach no.	Classification
Acetic acid ... %	25-90	64-19-7	200-580-7	607-002-00-6		Flam. Liq. 3; H226 Skin Corr. 1A; H314
Hydrogen chloride	5-10	7647-01-0	231-595-7	017-002-00-2		Acute Tox. 3; H331 Skin Corr. 1A; H314

The full text of the (EU)H-statements can be found in section 16.

SCL, M-factor and ATE

Name component(s)	CAS no.	SCL, M-factor, ATE
Acetic acid ... %	64-19-7	Oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %
Hydrogen chloride	7647-01-0	Inhalation: ATE = 3 mg/l (vapours) Inhalation: ATE = 0.5 mg/l (dusts or mists)

4. First aid measures

4.1	<u>Description of first aid measures</u>
General	First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.
First aid measures in case of inhalation	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.
First aid measures in case of skin contact	After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.
First aid measures in case of eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
First aid measures in case of ingestion	Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

4.2 **Most important symptoms and effects, both acute and delayed**

There is no information available.

4.3 **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

5. Firefighting measures

5.1	<u>Extinguishing media</u>	
Suitable extinguishing media	Co-ordinate fire-fighting measures to the fire surroundings.	
Unsuitable extinguishing media	There is no information available.	
5.2	<u>Special hazards arising from the substance or mixture</u>	
Special exposure hazards	Non-flammable.	
5.3	<u>Advice for firefighters</u>	
Special protective equipment	Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.	
Special procedures	Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.	
6.	Accidental release measures	
6.1	<u>Personal precautions, protective equipment and emergency procedures</u>	
Personal precautions	<i>For non-emergency personnel:</i> Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. <i>For emergency responders:</i> There is no information available.	
6.2	<u>Environmental precautions</u>	
Environmental precautions	Do not allow to enter into surface water or drains.	
6.3	<u>Methods and material for containment and cleaning up</u>	
Methods for cleaning up	Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in section 13 on waste disposal.	
6.4	<u>Reference to other sections</u>	
Safe handling	See section 7.	
Personal protection	See section 8.	
Removal of the waste product	See section 13.	
7.	Handling and storage	
7.1	<u>Precautions for safe handling</u>	
Handling	<i>Advice on safe handling:</i> If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. <i>Advice on general occupational hygiene:</i> Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.	

7.2 Conditions for safe storage, including any incompatibilities

Storage	<i>Hints on joint storage:</i> No special measures are necessary. <i>Storage class according to TRGS 510:</i> 6.1C (flammable, acutely toxic cat. 3/toxic or chronically acting hazardous substances).
Requirements for storage rooms and vessels	Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.
Protection against fire and explosion	No special fire protection measures are necessary.
Packaging material	There is no information available.
Unsuitable packaging material	There is no information available.

7.3 Specific end use(s)

Care product.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Occupational exposure limit values (Workplace Exposure Limits)

Cas no	Name of agent	TWA-8h (ppm)	TWA-8h (mg/m³)	TWA- 15 min (ppm)	TWA-15 min (mg/m³)	Source
64-19-7	Acetic acid ... %		25			REACH
		10	25	20	50	SCOEL
		10	25	20	50	TRGS 900 (DE)
7647-01-0	Hydrogen chloride		8		15	REACH
		5	8	10	15	IOEL
		2	3	4	6	TRGS 900 (DE)
		1	2	5	8	EH40 (VK)

TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit

Biological limit values	There is no information available.
DNELs	There is no information available.
PNECs	There is no information available.

8.2 Exposure controls



Engineering measures	If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.
Personal protection equipment	
Eye / face protection	Suitable eye protection: goggles.
Skin protection	Wear suitable protective clothing.

Hand protection	When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Thermal hazards	There is no information available.
Environmental exposure controls	There is no information available.
9. Physical and chemical properties	
9.1	<u>Information on basic physical and chemical properties</u>
Physical state	Liquid.
Colour	Dark brown.
Odour	Stinging.
Melting / freezing point	Not available.
Boiling point / range (1013 hPa)	Not available.
Flammability	Not available.
Explosion limits	Lower explosion limit: not available. Upper explosion limit: not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	Easily soluble in water. Solubility in other solvents not determined.
Partition coefficient n-octanol/water	Not available.
Vapour pressure	Not available.
Density or relative density	1.15 g/cm ³ at 20 °C.
Relative vapour density	Not available.
Particle characteristics	Not available.
9.2	<u>Other information</u>
Information with regard to physical hazard classes	
Explosive properties	Not available.
Self-ignition temperature	Solid: not applicable. Gas: not applicable.

Oxidizing properties	Not oxidising.					
Other safety characteristics						
Evaporation rate	Not available.					
Solid content	Not available.					
Viscosity / dynamic	1.7 mPa·s					
10. Stability and reactivity						
10.1 <u>Reactivity</u>						
Reactivity	No hazardous reaction when handled and stored according to provisions.					
10.2 <u>Chemical stability</u>						
Stability	The product is stable under storage at normal ambient temperatures.					
10.3 <u>Possibility of hazardous reactions</u>						
Hazardous reactions	No known hazardous reactions.					
10.4 <u>Conditions to avoid</u>						
Conditions to avoid	None.					
10.5 <u>Incompatible materials</u>						
Materials to avoid	There is no information available.					
10.6 <u>Hazardous decomposition products</u>						
Hazardous decomposition products	No known hazardous decomposition products.					
11. Toxicological information						
11.1 <u>Information on hazard classes as defined in Regulation (EC) No. 1272/2008</u>						
ATEmix calculated	ATE (inhalation vapour) 6.38 mg/l. ATE (inhalation dust/mist) 1.064 mg/l.					
Acute toxicity						
Cas no	Name of substance	Route of exposure	Dosis	Species	Source	Methode
64-19-7	Acetic acid ... %	Oral	LD50 = 3310 mg/kg	Rat	GESTIS	
7647-01-0	Hydrogen chloride	Inhalation vapour	ATE = 3 mg/l			
		Inhalation dust/mist	ATE = 0.5 mg/l			
Skin corrosion / irritation		Causes severe skin burns.				
Serious eye damage / irritation		Causes serious eye damage.				
Respiratory or skin sensitisation		Based on available data, the classification criteria are not met.				
Germ cell mutagenicity		Based on available data, the classification criteria are not met.				
Carcinogenicity		Based on available data, the classification criteria are not met.				

Reproductive toxicity		Based on available data, the classification criteria are not met.			
Specific target organ toxicity – single exposure		May cause respiratory irritation.			
Specific target organ toxicity – repeated exposure		Based on available data, the classification criteria are not met.			
Aspiration hazard		Based on available data, the classification criteria are not met.			
Additional information on tests		The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!			
11.2	<u>Information on other hazards</u>				
Other hazards		No further relevant information available.			
12. Ecological information					
12.1	<u>Toxicity</u>				
Ecotoxicity The product is not ecotoxic.					
Cas no	Name of substance	Aquatic toxicity	Dosis	h/d	Species
64-19-7	Acetic acid ... %	Acute crustacea toxicity	EC50 = 65 mg/l	48 h	Daphnia magna
12.2	<u>Persistence and degradability</u>				
Persistence and degradability		The product has not been tested.			
12.3	<u>Bioaccumulation</u>				
Bioaccumulation The product has not been tested.					
Cas no	Name of substance	Log Pow	BCF	Species	
64-19-7	Acetic acid ... %	-0.17	-	-	
12.4	<u>Mobility in soil</u>				
Mobility		The product has not been tested.			
12.5	<u>Results of PBT and vPvB assesment</u>				
Evaluation		The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII. The product has not been tested.			
12.6	<u>Endocrine disrupting properties</u>				
Endocrine disrupting potential		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.			

12.7	<u>Other adverse effects</u>	
Other adverse effects	No further relevant information available.	
Further information	Avoid release to the environment.	
13.	Disposal considerations	
13.1	<u>Waste treatment methods</u>	
Waste from residues / unused products	Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.	
European list of waste products	There is no information available.	
Removal of contaminated packaging	This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.	
14.	Transport information	
Transport per road, rail or inland waterways (ADR/RID/ADN)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 2790 ACETIC ACID SOLUTION 8 II Danger label: 8  Classification code: C3 Hazard identification no.: 80 Special provisions: - Excepted quantities: E2 Limited quantities (LQ): 1 L Transport category: 2 Tunnel restriction code: E
Transport per marine ship (IMDG)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 2790 ACETIC ACID SOLUTION 8 II Marine pollutant: not available Danger label: 8  Special provisions: - Excepted quantities: E2 Limited quantities: 1 L EmS: F-A, S-B Stowage category: A

MSDS

Material Safety Data Sheet

Transport by air (ICAO-IATA)		14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 2790 ACETIC ACID SOLUTION 8 II Danger label: 8  Special provisions: - Limited quantities (LQ) passenger: 0.5 L Passenger LQ: Y840 Excepted quantities: E2 IATA packing instruction – passenger: 851 IATA maximum quantity – passenger: 1 L IATA packing instruction – cargo: 855 IATA maximum quantity – cargo: 30 L
14.5	<u>Environmental hazards</u>		
Environmentally hazard		No.	
Marine pollutant		There is no information available.	
14.6	<u>Special precautions for user</u>		
Warning: strongly corrosive.			
14.7	<u>Maritime transport in bulk according to IMO instruments</u>		
Not applicable.			
15.	Regulatory information		
15.1	<u>Safety, health and environmental regulations/legislation specific for the substance or mixture</u>		
Relevant EU rule(s)		<i>Restrictions on use (REACH, annex XVII):</i> Entry 3, entry 40. <i>2010/75/EU (VOC):</i> 51 % (586.5 g/l). <i>2004/42/EC (VOC):</i> 51 % (586.5 g/l).	
National regulations		<i>Employment restrictions:</i> Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. <i>Water hazard class (D):</i> 1 - slightly hazardous to water.	
15.2	<u>Chemical Safety Assessment</u>		
Chemical safety assessments for substances in this mixture were not carried out.			

16. Other information

Indication of changes (revised safety data sheet)	Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Adjustment UFI and company name.								
Sources of used key data	This information is based on the currently available information (Producer(s)). See also the website: https://echa.europa.eu/information-on-chemicals/registered-substances								
(EU)H-statement(s)	H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation.								
Classification procedure	Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Classification</th><th style="text-align: left;">Classification procedure</th></tr> </thead> <tbody> <tr> <td>Acute Tox. 3; H331</td><td>Calculation method</td></tr> <tr> <td>Skin Corr. 1A; H314</td><td>Calculation method</td></tr> <tr> <td>Eye Dam. 1; H318</td><td>Calculation method</td></tr> </tbody> </table>	Classification	Classification procedure	Acute Tox. 3; H331	Calculation method	Skin Corr. 1A; H314	Calculation method	Eye Dam. 1; H318	Calculation method
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Skin Corr. 1A; H314	Calculation method								
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List of abbreviations and acronyms	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR/RID/ADN: Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways. Acute Tox.: Acute toxicity. ATE: Acute toxicity estimate. CAS: Chemical Abstracts Service. CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. DGR: Dangerous Goods Regulations. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. EC-No.: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. EmS: Emergency Schedule. Eye Dam. Seriously damaging to the eye. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IATA: International Air Transport Association (provisions concerning the international carriage of dangerous goods by air). IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA). ICAO: International Civil Aviation Organization. ICAO-TI: Technical instructions for the safe transport of dangerous goods by air. IMDG: International Maritime Dangerous Goods Code. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). LGK: Lagerklasse (storage class according to TRGS 510, Germany). Log Pow: Partition coefficient n-octanol/water. M-factor: Multiplication factor. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.								

MSDS

Material Safety Data Sheet

SCL: Specific concentration limit.
Skin Corr.: Skin corrosion/irritation.
TRGS: Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
VOC: Volatile organic component.
vPvB: Very Persistent and Very Bioaccumulative.

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.
Hofman Animal Care B.V. denies all responsibility for loss or damage resulting from the use of these data.

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