



EU SAFETY DATA SHEET in accordance with EU-Directive 2001/58/EC

Latest update 24/02/2004

MULTI-SURFACE CLEANER LEMON

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade name MULTI-SURFACE CLEANER LEMON
Supplier details ECOVER BELGIUM NV
Address Industrieweg 3, 2390 Malle, Belgium
Telephone +32 (0)3 309 25 00 Fax +32 (0)3 311 72 70
Emergency phone +32 (0)70 245 245
Telephone manager on guard +32 0473 94 49 97
Composition Multi-purpose cleaner

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Ingredients according to 67/548/EEC	% w/w	Symbol	CAS / EINECS-ELINCS
Anionic detergent	1-5	Xi;R38-41	64-17-5/200-578-6
Ethanol	1-5	F,R11	
Non-ionic sugar detergent	5-15	Xi;36/38	

3. HAZARDS IDENTIFICATION

Fire No specific risks when used normally.

Inhalation No specific risks when used normally. When spraying on large surfaces, headache, dizziness and drowsiness may occur.

Skin contact Irritation.

Eye contact Risk of serious eye injuries.

Ingestion Stomachache, diarrhoea, nausea and vomiting.

4. FIRST AID MEASURES

Inhalation Not relevant.

Skin contact Rinse with water.

Eye contact Rinse for a long time with cold, running water.

Ingestion Drink plenty of water or milk, do not induce vomiting!

Workplace equipment No specific recommendations.

Hints for the physician No specific recommendations.



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5. FIRE-FIGHTING MEASURES

Suitable fire extinguishing media	All extinguishing agents are allowed in case of fire in the immediate surroundings.
Non suitable media	None.
Special exposure hazards	None.
Protection against fire and explosions	Observe normal precautions for handling chemicals. For personal protection see also § 8.

6. ACCIDENTAL RELEASE MEASURES

Environmental precaution	Do not allow concentrated or diluted product to enter the soil or surface water.
Methods for cleaning up	Recover spilled material as much as possible in a clean container for reuse. Large spillages must be dammed off, taken up with sand or inert absorbent material and disposed of as chemical waste according to applicable regulations. Rinse away remainder with water.
Personal precaution	Spilled product may render the floor slippery. Avoid contact with unprotected skin and eyes. Wear protective clothing (see § 8).

7. HANDLING AND STORAGE

Handling	Wear suitable gloves (neoprene, nitrile rubber or natural rubber) in case of frequent contact with undiluted product.
Fire-and explosion protection	Not relevant.
Storage	Store in a cool and frost-free place, out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin protection	Wear waterproof gloves when taking up intensively material which is accidentally released. Persons with a sensitive skin are also recommended to wear waterproof gloves.
Eye protection	Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
Respiratory protection	Not relevant.

Environment protection see § 6

Ingredients with limit values regarding the working area

Ethanol (Cas°: 64-17-5 EINECS-ELINCS°: 200-578-6) MAC:1000ppm, 1900mg/m³. Harmful concentration levels in the air will be reached rather slowly in case of evaporation at 20°C, but much faster in case of spraying - which is not applicable to this product.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid	Relative density 20°C	1,00	kg/l
Colour	light yellow	pH conc 20°C	8.75	pH 1% 7
Odeur	citrus	Viscosity 25°C Brookfield LVT	<50	mPa.s
Flash point	55 - 100°C	Solubility in water 20°C	complete	
Self-ignition temperature	Above 56°C explosive vapour/air mixtures may be formed.			
Oxydation properties	None.			

10. STABILITY AND REACTIVITY

Stability	No decomposition under normal conditions of storage and use.
Conditions to avoid	Do not store <0°C and >40°C.
Materials to avoid	Do not mix with other cleaning products.
Hazardous decomposition products	No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Evaluation

Skin irritation (RBC test: Denaturation Index)	9.4 % (Sodiumdodecylsulphate = 100%)	very toxic
Eye irritatie (RBC test: Mean Indices Ocular Irritancy)	12.3	
Remark		
- Skin		
- Eye	Slightly irritant due to the composition of the material.	
- Oral	Relatively harmless (LD 50 rat-ori-theo >15000 ppm).	
Sensibilisation	To the best of our knowledge, this product contains no sensitizing raw materials.	
Remark	Contains only ELINCS or EINECS registered raw materials and does not contain any ingredients known to be mutagenic, carcinogenic, teratogenic or reproduction toxic (R45,46,47,49,60,61,63,64, EU 97/C234, 67/548/EEC, 88/379/EEC, OSHA, NTP, IARC/ARAB (cat 1-3))	



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12. ECOLOGICAL INFORMATION		Evaluation
Biodegradation acc. to Sapromat respirometry test (OECD 301F)	84 %	Complete biodegradable
Biodegradation acc. to Coupled Units test (OECD 303A)	%	
Biodegradation acc. to Stable Metabolite test	%	
Daphnia toxicity (Daphnia magna) EC 50 48h OECD 202	>100 ppm	hardly not toxic
Rotifer toxicity (Brachionus calyciflorus) EC50 24h ASTM E1440-91	>100 ppm	hardly not toxic
Algal toxicity (selenastrum capricornutum) EC50 72h OECD 201	ppm	not tested
Bacterial toxicity EC 50 (Microtox EC50 15min) DIN 38-412-L34	44 ppm	moderate toxic
Remarks	Ecover products do not contain any bioaccumulating raw materials and no PCM or nitromusk perfume components. The surface active components used in this product fulfill al of the biodegradability requirements in line with EU directives 73/404 and 73/404 (and their ammendments).	

13. DISPOSAL CONSIDERATIONS	
Product	Waste of this product is considered chemical waste. The legislation concerning disposal of waste can differ from one country/state to another. The disposal should therefore be done according to national or local waste legislation. If in doubt, ask the local waste management authoroty for advice. (also see § 6 and § 8 when disposing of).
Packaging	Cleaned empty packaging (including labels and caps) of this product is fully recycable (HDPE + PE). Empty (and cleaned) packaging may be collected selectively for recycling according to national or local waste legislation. Uncleaned packaging should be disposed of as chemical waste. The empty packaging is not subject to ADR.

14. TRANSPORT INFORMATION	
This product is not subject to ADR regulations.	
<u>Road transport</u>	
ADR/RID	Class Number
UN N°	
ADR Symbol	



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15. REGULATORY INFORMATION

Symbols

R- phrases

R- Without any risks for man and environment acc. to 1999/45/EEC

S- phrases

S2 Keep out of reach of the children.

WGK classification (Germany) Non-hazardous to water

16. OTHER INFORMATION

For correct use of this product: see Technical Data Sheet

Consulted literature

MSDS and additional literature data of the respective suppliers.

Chemiekaarten, 12th edition, 1997, ed. MIA, VMCI, Samson

Comprehensive guide to chemical resistant best gloves for various amounts of exposure, 1999, ver.3.5 www

This information herein only regards the product mentioned in § 1 and does not necessarily apply to its use combined with any other product(s) or specific process. This information is accurate and complete to our best current knowledge and is presented in good faith but without any warranty, express or implied. It remains the responsibility of the user to ensure himself this information is applicable and complete with respect to the intended use.

Revision of former version 01/02/2003. Changes in relation to the former version were made in headings: §1, §2, § 6, §8, §12, §13, §15.