



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company information

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Product information

Product Name : Citrikleen HD
 Application : Emulsifiable solvent degreaser.
 For further information : Contact our product safety department
 Information in case of emergency : Telephone +31 - (0)251 - 22 91 72

SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient name	Einecs	Cas no.	Content	Symbol	Risk
d-Limonene	227-813-5	5989-27-5	10-30%	Xi, N	10,38,43,50/53
Alcohol Ethoxylate			5-10%	Xn	22,36/38
Methanol	200-659-6	67-56-1	0-1%	F, T	11,23/24/25/39/23/24/25
2-Aminoethanol	205-483-3	141-43-5	10-30%	Xn	20,36/37/38
Diethanolamine	203-868-0	111-42-2	1-5%	Xn	22,38,41,48/22
Pine oil	202-680-6	8002-09-3	1-5%	Xi	38
Methyl Salicylate	204-317-7	119-36-8	1-5%	Xn	22,36

The full text for all R-phrases are shown in section 16.

SECTION 3: HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 4: FIRST AID MEASURES

General:

If medical attention is required present a copy of this datasheet to the physician.

Inhalation:

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion:

Do not induce vomiting! Rinse mouth thoroughly. Do not give victim anything to drink if he is unconscious. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.

Skin:

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention promptly if symptoms occur after washing.



Eyes:

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

This material is not flammable. Use extinguishing media appropriate for surrounding fire.

Special fire fighting procedures:

No specific fire fighting procedure given.

Unusual fire & explosion hazards:

No unusual fire or explosion hazards noted.

Hazardous combustion products:

Fire creates: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precaution in spill:

Avoid contact with skin, eyes and clothing. Wear protective clothing when dealing with spillages.

Precautions to protect environment:

Prevent products access into water courses. Notify authorities if large amounts of the material have entered a watercourse.

Spill cleanup methods:

General

Stop leak if possible without risk. Do not touch spilled material! Inform authorities if large amounts are involved.

Absorb

Collect with non-combustible absorbent material. Flush with water. Dike for large spills. Wash thoroughly after dealing with a spillage.

SECTION 7: HANDLING AND STORAGE

Usage precautions:

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact.

Storage precautions:

Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Keep above the chemical's freezing point to avoid rupture of container.

Storage criteria:

Misc. hazardous material storage.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient name	Cas no.	Std	Lt Exp. 8 hrs	St exp. 15 min.
Methanol	67-56-1	OES	200 ppm (Sk)	250 ppm (Sk)
2-Aminoethanol	141-43-5	OES	3 ppm	6 ppm
Diethanolamine	111-42-2	OES	13 mg/m ³	

Ingredient comments:

Oes = Occupational Exposure Standards. Sk = Can be absorbed through skin.

Protective equipment:



Ventilation:

Provide adequate general and local exhaust ventilation.

Respirators:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

Protective gloves:

Protective gloves must be used if there is a risk of direct contact or splash.

Eye protection:

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other protection:

Provide eyewash station. Wear appropriate clothing to prevent reasonably probably skin contact.

Hygienic work practices:

Wash at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, liquid
Colour	: Amber
Odour/taste	: Orange, pine
Solubility description	: Miscible with water
Density/specific gravity (g/ml)	: 0.96, Temperature 20°C
pH-value, conc. solution	: 11
Flash point (°C)	: is not flammable

SECTION 10: STABILITY AND REACTIVITY

Stability	: No particular stability concerns.
Conditions to avoid	: Avoid contact with oxidisers or reducing agents.
Materials to avoid	: Strong oxidizing agents.
Hazardous decomp. products	: Fire or high temperature create: Carbon dioxide (CO ₂), Carbon monoxide (CO), Nitrous gases (NO _x).



SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:

Repeated exposure may cause chronic upper respiratory irritation.

Ingestion:

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin:

Irritating to skin. May cause sensitisation by skin contact. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eyes:

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

Substance	:	<u>methanol</u>
Toxic dose – LD50	:	5628 mg/kg (oral rat)
Substance	:	<u>2-aminoethanol</u>
Toxic dose – LD50	:	2100 mg/kg (oral rat)
Substance	:	<u>Diethanolamine</u>
Toxic dose – LD50	:	710 mg/kg (oral rat)
Toxic dose – LD50	:	12200 mg/kg (skn-rbt)

SECTION 12: ECOLOGICAL INFORMATION

Ecological information:

Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Substance:

d-Limonene.

LC 50, 96 HRS, FISH mg/l:

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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods:

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements.



- Approved code of practice : Safety Data Sheets for Substances and Preparations L62.
Classification and Labelling of Substances and Preparations Dangerous for Supply.
- Guidance notes : Occupational Exposure Limits EH40.
- User notes : For further information or advice contact our technical service line.

This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.

Revision comments:

The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Rev. no./Repl. Sds generated:
09-01-2001

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|-----------------------|---|--------------|---|
| R-phrases (full text) | : | R10 | Flammable. |
| | | R11 | Highly flammable. |
| | | R20 | Harmful by inhalation. |
| | | R22 | Harmful if swallowed. |
| | | R36 | Irritating to eyes. |
| | | R38 | Irritating to skin. |
| | | R41 | Risk of serious damage to eyes. |
| | | R43 | May cause sensitisation by skin contact. |
| | | R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| | | R36/37/38 | Irritating to eyes, respiratory system and skin. |
| | | R36/38 | Irritating to eyes and skin. |
| | | R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| | | R48/22 | Harmful: danger of serious damage to health by prolonged exposure if swallowed. |
| | | R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Safety data sheet status : Approved.