

1. Substance/description of preparation and company

1.1 description of preparation

Cleaner Systems Disinfectant Computer Cleaner 250 ml CSP0102

Use: Disinfection and cleaning of hard surfaces

producer/supplier	Kleinmann GmbH
street / P.O. Box	Am Trieb 13 / -
nationality / zip / city	D - 72820 Sonnenbühl-Undingen
telephone:	07128/92 92-0
telefax:	07128/92 92 92
E-Mail:	info@kleinmann.net
responsible department:	dept. QS
emergency number:	++49 (0)30 / 19240 Advice Center for Poisoning Symptoms, Berlin

2. Possible dangers

description of dangers: flammable

3. Composition / information on components of preparation

general characterisation

mixture of water and following substances.

hazardous components

CAS: 64-17-5 ethylalcohol	30-50%	F	11
EINECS: 200-578-6			
CAS : 67-63-0 propane-2-ol	5-15%	F/Xi	11/36/67
EINECS : 200-661-7			
CAS : 71-36-3 Butan-1-ol	< 5%	Xn	10-22-37/38-41-67
EINECS : 200-751-6			
CAS : 68391-01-5 quaternary ammonia compound	< 1%	C,N	22/34/50
EINECS: 269-919-4			
CAS: 7173-51-5 quaternary ammonia compound	< 1%	C	22/34
EINECS: 230-525-2			
CAS: 85409-23-0 quaternary ammonia compound	< 1%	C,N	22/34/50
EINECS: 287-090-7			

4. First aid measures

4.1 general information

remove affected person from dangerous area and lay down.
remove clothes touched by the product.

- 4.2 inhaling**
supply fresh air or oxygen Consult emergency doctor if complaints are permanent.
in case of unconsciousness use stable lateral-position for transport.
- 4.3 skin contact**
wash off with water and soap immediately and rinse thoroughly.
in case of permanent skin irritation consult doctor.
- 4.4 eye contact**
rinse open eyes under running water for various minutes. Consult doctor.
- 4.5 swallowing**
rinse out mouth and drink water afterwards, do not provoke vomiting and consult a doctor immediately.
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5. Firefighting measures

- 5.1 suitable extinguishing agents:**
CO₂, firefighting powder or spray jetted water. Fight larger fires with spray jetted water or alcohol resistant foam.
- 5.2 extinguishing agents not suitable for safety reasons:** fully jetted water
- 5.3 special dangers caused by the material or the preparation, its combustion product or developing gases:**
development of explosive air-gas mixtures possible.
carbon monoxide can develop in a fire.
- 5.4 special protection equipment for firefighting**
wear breathing apparatus independent from the circulating air.
wear a complete protection suit.
depending on size of the fire, coordinate with fire in the surroundings.
- 5.5 additional information**
fire classification:
cool endangered containers with sprayed water.
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6. Measures for accidental evolution see point 8 and point 13.

- 6.1 personal safety measures:**
wear protective clothing. Keep unprotected people away.
provide for sufficient ventilation.
keep away ignition sources.
avoid contact with eyes and skin.
- 6.2 environmental protection measures:**
do not introduce larger quantities into sewerage system or into waters.
inform responsible authorities when sewerage system or waters are affected.
inform responsible authorities when soil is affected.
- 6.3 cleaning methods:**
take up with liquid-absorbing material (sand, infusorial earth, acid binder, universal binder).
provide for sufficient ventilation. Dispose contaminated waste material according to point 13.
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7. Storage and handling

- 7.1 handling**
information for safe handling:
cool and dry storage in tightly closed Gebinden.

provide for good ventilation/suction filter at the workplace.
provide for good ventilation at ground level (vapor is heavier than air).

information on protection of fire and explosion:

inflammable liquid. Vapor is heavier than air and can build explosive mixtures with air. Cool endangered containers with water. Keep away ignition sources and do not smoke.
take measures against electrostatic charging.

7.2 storage

requirements for storage rooms and containers:

store in a cool place. Provide for solvent-resistant and tightly closing floor.

information for materials stored together: -

special storage conditions (see point 10.2):

keep container tightly closed. Cool storage.
protect from heat and direct sun exposure.
heating leads to increased pressure and danger of bursting.
store container in a room with good ventilation.

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8. Limitations of exposition and personal protection equipment

8.1 additional information for the arrangement of technical plants:

8.2 components with limit values that are relevant to the workplace

<u>CAS-No.</u>	<u>Description of material</u>	<u>Type</u>	<u>Value</u>	<u>Unit</u>
64-17-5	ethanol	TRGS	1900	mg/m3
			1000	ml/m3
67-63-0	Propan-2-ol		500	mg/m3
71-36-3	Butan-1-ol		310	mg/m3

additional information: the lists valid during time of drawing up are used as basis

8.3 personal protection equipment

breathing protection: wear protective mask in case of regular exposure and inappropriate ventilation.

hand protection: wear solvent-resistant protective gloves in case of regular exposure.

eye protection: wear tight protective glasses in case of regular exposure.

body protection: wear protective clothes

general protection and hygiene measures:

take the usual measures for the use of chemicals.

take off dirty, soaked clothes.

keep away from food, drinks and food stuff.

do not eat, drink and smoke at work.

wash your hands and use protective skin lotion before breaks and before end of work.

avoid eye and skin contact.

do not inhale gases / vapors / aerosols.

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9. Physical and chemical properties

	<u>value</u>	<u>unit</u>	<u>method</u>
9.1 appearance/smell:			
state:	liquid		

	color:	transparent	
	odor:	characteristic	
9.2	data relevant for safety		
	pH value:	7 - 8	
	change of state		
	boiling point/boiling area *:	> 35 °C	
	flaming point :	23 °C	(in closed crucible)
	danger of explosion:	product is not explosive, but the development of explosive air-vapor mixtures is possible.	
	density:	0,90 – 0,93	g/cm ³ 20°C
	water solubility:	mixable	
	viscosity, dyn. *:	4 mPa s	dyn., bei 20 °C

That with „*“ marked parameters refers on the most dangerous component in the preparation.

10 Stability and reactivity

10.1 conditions to be avoided

warmth, flames

10.2 material to be avoided

reaction with strong oxidizing agents.

10.3 hazardous decomposition products

no hazardous decomposition products known if used as agreed.

11 Information concerning toxicology

11.1 toxicologic tests

LD₅₀ / LC₅₀ - values relevant for classification:

<u>component</u>	<u>type</u>	<u>methode</u>	<u>value</u>	<u>unit</u>	<u>species</u>
ethanol	orallyl	LD50	7,060	mg/kg	rat

primary irritative effects:

on the skin:

light effects

in the eye:

irritative effects.

sensitizing effects:

no known sensitizing effects

additional toxicologic information:

Inhaling of concentrated vapors as well as oral taking can lead to narcotic conditions

11.2 experience with humans:

long or regular contact can extract fat from the skin.

11.3 additional information:

the preparation is classified with the conventional method according to the calculation procedure of the GefStoffV.

The product is a preparation, for which no experimentally determined toxicology value are available. That with „*“ marked parameters refers on the toxicological most dangerous component in the preparation.

12 Information on ecology

12.1 information about elimination:

decomposibility about: >98 %

Gesamtbeurteilung:

The biological decomposibility refers to the sum of the single additives.

12.2 behavior in environmental compartment: n.a.d

12.3 ecotoxic effects: n.a.d.

12.4 additional ecologic information

hazard category for water: WGK (self classification)

do not introduce larger undilluted quantities into ground water, sewerage system or into waters.

The product is a preparation, for which no experimentally determined ecological value are available.

13 Information on disposal

13.1 product

recommendation:

comply with regulations of local authorities.

Do not introduce larger undilluted quantities into ground water, sewerage system or into waters.

waste key number: --

waste labeling: --

13.2 for uncleaned packaging

safe handling:

Do empty container completely. Do not make holes into uncleaned containers, do not cut or weld them. Remains can possibly cause an explosion. After possibility use the container again.

14 Transport regulations

road-transport by ADR

UN – No: 1987

class: 3

Packaging group: II

description of good: alcohols, flammable, n.o.s. (Ethylalcohol, Isopropyl alcohol)

Limited quantities: LQ 4

recommendation: store seperately from food stuff and tobacco.

Sea transport IMDG-Code

UN-No.: 1987

Class: 3

Packaging group: II

description of good: alcohols, flammable, n.o.s. (Ethylalcohol, Isopropyl alcohol)

Limited quantities: LQ 4

Air transport IATA/ICAO

UN-No.: 1987

Class: 3

Packaging group: II

description of good: alcohols, flammable, n.o.s. (Ethylalcohol, Isopropyl alcohol)

15 Regulations

15.1 labeling regulation on hazardous material including EC regulations (67/548/EEC as well as 88/379/EEC)

symbol and description of danger: -

R-phrases:

R 10 Flammable.

S-phrases:

S 2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

S 23 aerosols don't inhale

16. additional information

R 10 Flammable.

R 22 Harmful if swallowed

R 34 Causes burns

R 41 Risk of serious damage to eyes.

R 50 Very toxic to aquatic organisms

R 67 Vapours may cause drowsiness and dizziness.

the information refers to the product in its condition on delivery.

department issuing data sheet: Chemical Dep.

Alterations are at the left margin with „ * " marked.

Legend:

n.a. = not applicable / n.a. = not available / n.t. = not tested / n.d.a. = no data available /
n.c.d. = not called differently

VbF = regulation on inflammable liquids

MAK = maximum concentration at workplace in mg/m³ = ppm

WGK = hazard category for water

The data listed here is supposed to describe the product with respect to the necessary safety precautions. They do not aim at establishing certain properties, and they are based on the current level of our knowledge. No liability.