

1. Substance/description of preparation and company

1.1 description of preparation

Cleaner Systems TFT/LCD Disinfectant Cleaner Spray CSP0105

Use: Ready-to-use solution for disinfection of 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
homepage:	www.kleinmann.net
responsible department:	dept. QS
emergency number:	++49 (0)30 / 19240
	Advice Center for Poisoning Symptoms, Berlin

2. Possible dangers

description of dangers: avoid eye-contact

special information on danger for people and environment:

3. Composition / information on components of preparation

general characterisation

Mixture of water with biocides

hazardous components

CAS No.	description	weight - %	symbol	R-sent
68391-01-5	Quaternary ammonium compounds	0,1-1,0	C,N	22/34/50
7173-51-5	Quaternary ammonium compounds	0,1-1,0	C	22/34
85409-23-0	quaternary ammonia compound	0,1 - 1,0	C,N	22/34/50

4. First aid measures

4.1 general information

remove affected person from dangerous area and lay down.

4.2 inhaling

supply fresh air or oxygen

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.

5. Firefighting measures

5.1 suitable extinguishing agents:

firefighting powder or spray jetted water. Fight larger fires with spray jetted water or alcohol resistant foam.

Safety Data Sheet

according to EC regulation 91/155/EEC

Trade Name:
Cleaner Systems TFT/LCD Spray

- 5.2 extinguishing agents not suitable for safety reasons:
5.3 special dangers caused by the material or the preparation, its combustion product or developing gases:
Toxic gases can develop in a fire.
5.4 special protection equipment for firefighting
wear a complete protection suit.
5.5 additional information
cool endangered containers with sprayed water.

6. Measures for accidental evolution see point 8 and point 13.

- 6.1 personal safety measures:
wear protective clothing.
avoid contact with eyes and skin.
6.2 environmental protection measures:
do not introduce larger quantities into sewerage system or into waters.
6.3 cleaning methods:
take up with liquid-absorbing material

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.
information on protection of fire and explosion:
Keep away ignition sources and do not smoke.
7.2 storage
requirements for storage rooms and containers:
provide for good ventilation/suction filter at the workplace.
information for materials stored together: no prohibitions concerning materials stored together
special storage conditions (see point 10.2):
keep container tightly closed. Protect from heat and direct sun exposure.
store container in a room with good ventilation.

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

CAS-No.	Description of material	Type	Value	Unit
---------	-------------------------	------	-------	------

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

8.3 personal protection equipment

breathing protection: --

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:

Safety Data Sheet

according to EC regulation 91/155/EEC

Trade Name:
Cleaner Systems TFT/LCD Spray

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.

9. Physical and chemical properties

	value	unit	method
9.1 appearance/smell:			
state:	liquid		
color:	transparent		
odor:	characteristic		
9.2 data relevant for safety			
pH value:	6,0-8,0		
flaming point :	>65	°C	(in closed crucible)
water solubility:	mixable		
That with „*“ marked parameters refers on the most dangerous component in the preparation.			

10 Stability and reactivity

- 10.1 conditions to be avoided
- 10.2 material to be avoided
- 10.3 hazardous decomposition products
- no hazardous decomposition products known if used as agreed.

11 Information concerning toxicology

toxicologic tests

LD₅₀ / LC₅₀ - values relevant for classification:

component	type	methode	value	unit	species
Quaternary ammonia compounds	orally	LD50	778	mg/kg	rat

primary irritative effects:

on the skin: light effects

in the eye: irritative effects

sensitizing effects: no known sensitizing effects

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.

12 Information on ecology

Safety Data Sheet

according to EC regulation 91/155/EEC

Trade Name:
Cleaner Systems TFT/LCD Spray

12.1 information about elimination:

decomposibility about: 98 %

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

12.2 **behavior in environmental compartment:** n.d.a

12.3 **ecotoxic effects:** n.d.a

12.4 additional ecologic information

hazard category for water: WGK 1 (self classification)

do not introduce larger undiluted 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 undiluted 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:

no regulations

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: S 2 keep out of the reach of children

spray-application: S 23 aerosols don't inhale

16. additional information

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

department issuing data sheet: Dep. QS

data sheet labeling:

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

R-phrases (point 2)

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

Date: 11.08.10
Revise: 18.03.10
Page 5/5

Safety Data Sheet

according to EC regulation 91/155/EEC

Trade Name:
Cleaner Systems TFT/LCD Spray

R 67 Vapours may cause drowsiness and dizziness.

-

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.