

**Safety data for hazardous substances and preparations according to
EC regulation 91/155/EEC**

1. Substance/description of preparation and company

1.1 description of preparation

anti-static-surface-cleaner; No. 410182 + 560428

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2. Composition / information on components of preparation

2.1 general characterisation
mixture of solvents, scents and tensides.

2.2 hazardous components

CAS No.	description	weight - %	symbol	R-sent.	MAK -value
-	-	-	-	-	-

3. Possible dangers

3.1 description of dangers:
inflammable

3.2 special information on danger for people and environment: -

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
rinsc 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.

4.6 information for the doctor
danger of aspiration when swallowing or vomiting.
symptomatic treatment: n.d.a.

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: n.a.
cool endangered containers with sprayed water.

6. Measures for accidental evolution

see point 8 (limitations of exposition and personal protection equipment) 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.
- 6.4 **additional information:** -

7. Storage and handling

- 7.1 **handling**
- 7.1.1 **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).
- 7.1.2 **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
- 7.2.1 requirements for storage rooms and containers:
store in a cool place.
provide for solvent-resistant and tightly closing floor.
- 7.2.2 information for materials stored together: no prohibitions concerning materials stored together
- 7.2.3 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.
- 7.2.4 storage classification (VCI): n.d.a.

8. Limitations of exposition and personal protection equipment

- 8.1 additional information for the arrangement of technical plants: see point 7
- 8.2 components with limit values that are relevant to the workplace

CAS-No.	description of material	type	value	unit
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(the lists valid during time of drawing up are used as basis.)

additional information: -

- 8.3 personal protection equipment
- 8.3.1 breathing protection:
wear protective mask in case of regular exposure and inappropriate ventilation.
- 8.3.2 hand protection:
wear solvent-resistant protective gloves in case of regular exposure.
- 8.3.3 eye protection:
wear tight protective glasses in case of regular exposure.
- 8.3.4 body protection: n.a.
- 8.3.5 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.

9. Physical and chemical properties

- 9.1 appearance/smell:
state: solid/ liquid
color: transparent
odor: mild
- 9.2 data relevant for safety
pH value, undiluted: 7,1
pH value, of 1% in water: n.a.
change of state
boiling point/boiling area (in °C): n.av.
melting point/melting area (in °C): n.av.
inflammability
flaming point (°C): > 34 °C (in closed crucible)
ignition temperatur: > 360 °C
spontaneous inflammability (EC A16) n.d.a.
fire-fostering properties
danger of explosion: product is not explosive, but the development of explosive air-vapor mixtures is possible.
explosion limits:
lower explotson limit: 2,1 (Vol.%)
upper explosion limit: 13,5 (Vol.%)
steam pressure (hPa): n.d.a.
density 20°C (g/ml): 0,9185
solubility
water solubility: mixable
fat solubility: n.d.a.
distribution coefficient n-octanol/water n.d.a. (log pOW)
viscosity, dyn. (mPa x s): n.d.a.
test of separation of solvents (%) n.d.a.
content of solvent (weight.%) 25-50 %
- 9.3 additional information
refraction index: 1,359

10. Stability and reactivity

- 10.1 conditions to be avoided
warmth, flames (see point 7 handling and storage)
- 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.
- 10.4 additional information
n.av.

11. Information concerning toxicology

11.1 toxicologic tests

acute toxicity

LD₅₀ / LC₅₀ - values relevant for classification:

component	type	value	species
n-Propanol	orally	8000 mg / kg	rat
	dermally	4000 mg / kg	rab
	inhaling	9,8 mg / L / 4 h	rat

primary irritative effects:

on the skin:

no irritative effects known.

in the eye:

light effects.

sensitizing effects:

no known sensitizing effects

subacute to chronic toxicity:

-

cancer-causing effects:

-

genetically harmful effects:

-

reproductively harmful 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.

12. Information on ecology

1. information about elimination (persistence and decomposability):

procedure:

n.d.a.

method of analysis:

n.d.a.

degree of elimination:

n.d.a.

additional information:

easy biological decomposition of the product.

2. behavior in environmental compartments

mobility and accumulative potential:

n.d.a.

additional information:

-

3. ecotoxic effects

aqueous toxicity

fish toxicity:

400 mg/l/48h

LC 50 (leuciscus idus, DIN 38412, part 15)

daphnia toxicity:

n.d.a. mg/l/24h

EC 50 (daphnia magna, DIN 38412, part 11)

behavior in sewage plants:

disturbances of the decomposition activity of activated sludge cannot be expected if small quantities are correctly introduced into adapted biological sewage plants.

respiratory problems due to communal

activated sludge:

n.d.a.

additional information:

n.d.a.

4. additional ecologic information

CSB value:

2230 mg / g

BSB5 value:

1630 mg / g

AOX value:

n.a.

general information

hazard category for water:

WGK 1 (self classification)

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

self classification according to VCI:

n.d.a.

decomposability:

easy biological decomposition.

13. Information on disposal

- 13.1 product: -
- 13.2 recommendation: : comply with regulations of local authorities.
do not introduce larger undiluted quantities into ground water, sewerage system or into waters.
- 13.3 waste key number: 553 56
- labeling: methanol and other liquid alcohols
- 13.4 for uncleaned packaging:
safe handling: empty container completely. Do not make holes into uncleaned containers, do not cut or weld them. Remains can possibly cause an explosion.

14. Transport regulations

- 14.1 road- / rail transport (GGVS/ADR / GGVE/RID)
- class: 4.1
- number / letter: 4 c
- warning sign - danger - No.: 40
- material - / UN - No.: 3175
- description of good: solid material containing flammable liquid, n.c.d., 1-Propanol
- comment: for regulations concerning reduced quantities see RN 2401a.
- 14.2 transport on inland waterways (ADNR/GGV Binsch)
- 14.3 transport by sea ship(GGVSsee / IMDG)
- class: 4.1
- UN - No.: -
- page: 4173-1
- packaging group: II
- EmS-No.: 4.1-06
- MFAG : -
- technically correct name: -
- marine pollutant: -
- 14.3 transport by plane (ICAO - TI / IATA-DGR)
- class: 4.1
- UN / ID - No. : -
- packaging group: II
- technically correct name: -

15. Regulations

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

- symbol: -
- code letter: -
- danger labeling: -
- R-sentences: 10 inflammable
- S-sentences: 2 do not put in hands of children
51 use only in adequately ventilated rooms

national regulations

- accident regulation: n.a.
- TA-air: n.t.
- VbF: does not apply

hazard category for water: WGK 1 (self classification)

- comply with limitations of use / limitations of distribution according to § 15 Gef.Stoff-VO.
- comply with accident instructions BG: M 017 „solvents“.

16. additional information

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

department issuing data sheet:

contact:

data sheet labeling: surfuiv 1

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

BAT = biological tolerance at workplace

TRbF = technical rules inflammable liquids

WGK = hazard category for water

WGK3 = heavily endangering water

WGK1 = slightly endangering water

WGK2 = endangering water

WGK0 = generally not endangering water

IC INTRACOM

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.