

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

ESD-CLEANER (Part-No.: 2900.570 and 2900.571.1)

Relevant identified uses of the substances or mixture and uses advised against identified uses

Cleaning agent for industrial properties: Special cleaner for dissipative and conductive surfaces.
Unassisted application: Private application – no public product.

Details of the supplier of the safety data sheet

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2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008, attachment VII:
Fatal eye damage / eye irritation 2

Label elements

Labeling according to Regulation (EC) No. 1272/2008

Signal word: Warning



Hazard statements:

H319 - Causes serious eye irritations

Safety precautions:

P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338 - AT CONTACT WITH THE EYES: Rinse the eyes with water for a few minutes.
Remove used contact lenses. Rinse further.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Danger determined component for labeling

Contains: 2-propanol, ethylene glycol

Other hazards

Slip danger. Degrease the skin at prolonged or repeated application.
This product should be handled with care as usual caution whilst handling chemicals.

3. Composition/ information on ingredients

Mixtures

Description of the mixture

Watery preparation of water soluble solvent, anti-static and surface-active agent.
The exactly composition is subject to property rights.

Hazardous Components

Components with required EC limits, see chapter 8.

Safety Data Sheet according to Regulation (EC) No. 1907/2006

Product name: ESD-Cleaner

Part no.: 2900.570 and 2900.571.1

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Component name: 2-Propanol

CAS-Number: 67-63-0

EC-Number: 200-661-7

Concentration: 5 % - 10 %

Classification according to Regulation (EC) No. 1272/2008:

Flammable liquids, category 2; H225

Eye irritation, category 2; H319

Specific target organ toxicity (single exposure), category 3; H336

Eye injuries, category 1; H318

Irritant to skin, category 2; H315

(the wording of the H-phrases can be found in section 16)

Component name: Ethylene glycol monobutyl ether

CAS-Number: 111-76-2

EC-Number: 203-905-0

Concentration: 1 % - 5 %

Classification according to Regulation (EC) No. 1272/2008:

Acute toxicity, category 4, inhalation; H332

Acute toxicity, category 4, skin contact H312

Acute toxicity, category 2; swallowed, H302

Irritant to skin, category 2; H315

Eye irritation, category 2; H319

(the wording of the H-phrases can be found in section 16)

Additional information: According to the Annex II/No. 1 of the Hazardous Material Regulations and the EC-Directive 88/379/EWG is the proportion of these ingredients in the product not classified as a "hazardous preparation". The instructions for safe use of the product are considered.

Component name: Glycol ether, isomer mixture

CAS-Number: 34590-94-8

EC-Number: 252-104-2

Concentration: 3 % - 6 %

According to EC-criteria it is not classified as a danger substance.

Manufacturer specifications of the Sigma-Aldrich Group

(the wording of the H-phrases can be found in section 16)

Component name: 1-methoxy-2-propanol

CAS-Number: 107-98-2

EC-Number: 203-539-1

Concentration: 0.1 % - 3 %

Classification according to Regulation (EC) No. 1272/2008:

Flammable liquid, category 3; H226

Specific target organism toxicity (once-only exposition), category 3; H336

(the wording of the H-phrases can be found in section 16)

Component name: 2-Phenoxyethanol

CAS-Number: 122-99-6

EC-Number: 204-589-7

Concentration: 0.1 % - 3 %

Classification according to Regulation (EC) No. 1272/2008:

Acute toxicity, category 4, swallowed; H302

Eye irritation, category 2; H319

(the wording of the H-phrases can be found in section 16)

4. First aid measures

Description of first aid measures

General information

First aider must observe self-protection. Take off immediately all contaminated clothing. Rinse affected skin with plenty of water.

Following inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In case of irritation of respiratory passages by the product seek medical advice.

Following skin contact

Wash off with soap and plenty of water. Take off immediately all contaminated clothing. If skin irritation continues consult a physician.

Following eye contact

Take out contact lens. Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

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Following ingestion

Do not provoke vomiting! Consult physician (danger of foam aspiration!).

Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth, fluid spit out again.

Make drink some glasses of water. The decision whether to provoke vomiting or not is to be taken by a physician.

Most important symptoms and effects, both acute and delayed

Informations on symptoms are ambiguous or missing for this product.

Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. Firefighting measures

Extinguishing media

The product itself does not burn. Harmonize extinguishing measures with a possible fire of surroundings.

Unsuitable extinguishing device: water full jet (splashing danger).

Special hazards arising from substance or mixture

Danger of slipping on spilled material. Arising on wet deletion foam with water jet well distributed add or defoamer.

Advice for firefighters

Substance itself does not burn. Use extinguishing activities according to surrounding.

When inclusion in surrounding fire: If possible, use a dry powder extinguisher.

Contact with skin, keep a safety distance and wear suitable protective clothing.

In case of fire use a respirator mask.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For protection measures see chapter 7 and 8. The product should be handled with caution.

Environmental precautions

Intrusion of product and avoid large amounts of contaminated wash water in water and soil.

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Soak up larger quantities with a pump or use an inert absorbent material (e.g. sand, silica gel, acid binder or universal binder).

Shovel into suitable containers for disposal. If necessary dilute. Clean the spillage area with water.

Reference to other section

Information: For handling see chapter 7, for personal protective equipment see chapter 8, for disposal see chapter 13.

7. Handling and storage

Precautions for safe handling

Keep the canister / bottle strong closed. When using do not eat or drink. Open and handle the canister / bottle with care, store upright as possible. The product should be handle with care, usual caution whilst handling chemicals.

Conditions for safe storage, including any incompatibilities

Handle in premises which have modern ventilation standards. Store in a well-ventilated area, not above eye-level.

Store only in the original package. Protect from frost. Keep away from heat and direct sunlight.

Optimal storage temperature: 15 – 25 °C

The storage with the following substances is prohibited:

- Medicines, drinks, food and feed products additives including
- Infectious, radioactive and explosive materials
- Organic peroxides
- Oxidizing substances of group 1 according to TRGS 515

This substance should not be stored together with substances which hazardous chemical reaction are possible.

Requirement of storage rooms and containers

Excellent ventilation and extraction of the working area provide. Alkali-resistant floor provide. Eye bath provide.

Locations conspicuous marked. When handling large quantities provide emergency showers. Stored in a location with alkali resistend floor or on a drain tray so that when is ensured leakage protection of groundwater. Use light metal drums.

Always keep in containers which correspond the original one. Keep container tightly closed.

Storage class (VCI): 10

Specific end use:

Special cleaner to clear backlogs of dissipative and conductive surfaces.

For additional information please refer to our product specifications.

8. Exposure controls / personal protection

Control parameters

Workplace exposure limits (AGW)

Chemical: 2-Propanol

EC-No.: 200-661-7

Value: 200 ppm, 500 mg/m³

Peak limiting: 2

Duraton 15 min; average: 4 times per shift; distance 1 h

Category II – substance with reabsorption

Pregnancy: Category C

There is no risk of an embryotoxic effect if the MAK-value and the BAT-value are met.

Chemical: Ethylene glycol monobutyl ether

EC-No.: 203-905-0

Value: 20 ml/m³, 98 mg/m³

Exceeding factor: 4

Duraton 15 min; average: 4 times per shift; distance 1 h

Category II – substance with reabsorption

Danger of skin absorption

There is no risk of an embryotoxic effect if the AGW and the BGW value are met.

Chemical: Glycol ethers, isomer mixture

EC-No.: 252-104-2

TRGS 900: Glycol ethers, isomer mixture: MAK: 310 mg/m³, 50 ml/m³

Category: 1 = substances for which the localized effect limited value regulatory is or respiratory system sensitising substances.

EC: Glycol ethers, isomer mixture: MAK: 310 mg/m³, 50 ml/m³

Skin absorption: H

Pregnancy: Group D; (DGF: 2009)

Chemical: Propylene glycol 1-methyl ether

EC-No.: 203-539-1

TRGS 900- Occupational exposure limits

MAK: 370 mg/m³, 100 ml/m³

Exceeding factor: 2

Duraton 15 min; average: 4 times per shift; distance 1 h

Category: 1 = substances for which the localized effect limited value regulatory is or respiratory system sensitising substances.

There is no risk of an embryotoxic effect if the AGW and the BGW value are met.

Chemical: Ethylene glycol monophenyl ether

EC-No.: 204-589-7

MAK: 110 mg/m³, 20 ml/m³

Exceeding factor: 2

Duraton 15 min; average: 4 times per shift; distance 1 h

Category: 1 = substances for which the localized effect limited value regulatory is or respiratory system sensitising substances.

There is no risk of an embryotoxic effect if the AGW and the BGW value are met.

Exposure of pregnant woman at such a damage may also if the MAK-value and the BAT-value are met.

Limiting and monitoring exposure

Technical measures and application appropriate working operations have priority before the use of personal protective equipment.

Personal protective equipment

(EN 465): Personal protective equipment should be selected specifically for the working place, in dependence on concentration and quantity.

Eye protection

(EN 166:2001): Use protective glasses with side protection (plastic glasses, for example transparent PVC).

Skin protection

Use solvent and base constant gloves according to Occupational Safety Regulations (BGR) 195.

At full contact:

- Glove material: butyl rubber
- Layer thickness: 0.7 mm
- Breakthrough time: > 480 min

At splash contact:

- Glove material: nitrile rubber
- Layer thickness: 0.4 mm
- Breakthrough time: > 120 min

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Respiratory protection

Required when dust / vapors: Provide adequate ventilation (see also chapter 7). If this is insufficient, suitable respiratory protection must be worn (for example unintended release of substances, occupational exposure limit value is exceeded MAK-value). See maximum period for wear. Respiratory protection: P3 particle filter in combination with gas filters E, advised P3, color: white. For details on application requirements and maximum use concentrations refer to the "Rules for the use of respiratory protective devices" (BGR 190).

Industrial hygiene

If there is a risk of contamination in work areas it is not allowed to store and eat food. For this purpose special areas must be set up.

General safety and hygiene measures:

Keep away from foods and beverages. Remove contaminated clothing immediately. Wash hands before breaks and after finishing work.

Prevent the contact with eyes and skin. Do not eat, drink, or no smoke. Usual precautionary of chemicals.

Environmental precautions

See chapter 6 and 7. No further measures necessary.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: blue

Odor: characteristic

Important information regarding to health- and environment protection plus for safety

pH-value: 4.7 - 5.5 at 20 °C

Steam pressure: no data available

Melting point/Melting range: not defined

Density: 0.985 g/ml at 20 °C

Boiling point/Boiling range: > 100 °C

Water solubility: unlimit at 20 °C

Flash point: > 60 °C

Fat solubility: no data available

Flammability: no data available

Solubility in solvent: no data available

Explosion danger: not applicable

Vapor density: no data available

Explosion range: not applicable

Evaporation rate: no data available

Inflammation point: not applicable

Bulk density: not applicable

Oxidizing properties: not applicable

Partition coefficient (n-octanol/water): no data available

Content of solvent: ca. 17 %

9.2 Other information

Other physical-chemical data were not determined.

10. Stability and reactivity

Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

Chemical stability

The product is stable at normal storage and handling conditions.

Possibility of hazardous reactions

No hazardous reactions known.

Conditions to avoid

Stable at normal use. Precipitation at low temperatures (reversible process).

Incompatible materials

None known.

Hazardous decomposition products

None known.



11. Toxicological information

Information on toxicological effects

The toxicological classification of the mixture was based on the results of the calculation method of the generally Preparations Directive (1999/45/EC).

Symptoms of acute poisoning

Eyes: By Liquid splashes: Burning/stinging, foreign body sensation, redness of the conjunctiva, maybe superficial corneal damage and fast generally resersibel.
Skin: Defatting/drying.
Inhalation: At very high concentrations irritation of the eyes and upper respiratory system (mucous membrans burning, lacrimation, cough). When used under normal conditions a MAK-value exceeding is not expected.
Ingestion: Burning of mucous membrans, possibly nausea, drunkenness, stomach pain and diarrhea.

Relevant for classification LD/LC50-values:

LD50 oral (rat) > 5000 mg/kg
LD50 dermal (rabbit) > 9000 mg/kg

Carcinogenicity:

From studies to follow ingestiver chemical burns (most with sodium hydroxide) was derived that the incidence of the occurrence of esophageal tumors according to these lesions to the 1000 - 3000 fold increase. Tumors can be attributed to the massive tissue destruction with the following onset of regenerative processes and not a direct carcinogenic effect. (British Industrial Biological Research Association: Toxicity Profiles; BIBRA Information Department, Carshalton).

Information on ingredients

See chapter 3

12. Ecological information

Toxicity

Review text: Easily eliminated

Acute toxicity to fish: LC50/96h: > 10000 mg/l (pimephales promelas / fatheatbrass)

Presistence and degradability

Information to the elimination: The contained tenside in this preparation comply with the biodegradability criteria according to the Regulation (EC) No. 648/2004 and degrade at the level of primary to > 90 %.
Biodegradation: 93 %/13d OECD modified screening test. Documentation confirming this are kept available for the competent authorities of Member States and those provided. **Additional informations:** Do not allow product or large quantities of ground water, water or sanitary sewer systemallow to enter. When introduces properly, no further contaminated, low cconcentration in adaperte biological purification plans no fault of degradability of activated sludge be expected.

Bioaccumulation potential

Accumulation in organisms is not expected.

Mobility in soil

Low volatility of tensides.

Other adverse effects

Prevent penetration of product or large quantities of contaminated water into waterways, soil and drains.

13. Disposal considerations

Waste treatment methods

Recommendation

For disposal, local regulations have to be observed and possibly contaminants to comply with use. All details are recommendations.

Waste as defined in the waste catalogue

Define the specific waste code with the local waste disposal expert.

Packaging / contaminated packaging

Empty the packaging thoroughly. After appropriate neutralization: Uncontaminated and cleaned containers may be recycled.



14. Transport information

UN-number

Not classified as dangerous goods.

UN proper shipping name:

ADR/RID

Not applicable

IMDG-Code / ICAO-TI / IATA-DGR

Not applicable

Transport hazard class

Not applicable

Packing Group

III (barely criticality)

Environmental hazards

Features environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: no

Special precautions for user

No tunnel restrictions. Only be transported in closed containers, as the original one. See chapter 6 – 8.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 648/2004 (detergents):

The product meets the criteria which are defined in regulation (EC) No. 648/2004.

Guide line 1999/13/EG (VOC regulation):

The product contains 16.5 % (163 g/l) aliphatic hydrocarbons.

Water hazard class:

WGK 1 – low hazard to waters – classification according to mixing rule appropriate with annex 4 of the VwVwS, Juli 2005.

Chemical safety assessment:

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

16. Other information

H-phrases referred to in chapter 2 and 3

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	Cause drowsiness or dizziness

Changes since the last version

Modification of section 9 and 15 (VOC information)

Data sheet issued by

Quality Management: Juergen Speicher

All information is given to the state of knowledge and experience from the date of issue. This information represents the product with a view to safety specifications, they provide an assurance of no property in the sense of a technical specification existing laws and regulations is the recipient of our products under their own responsibility to respect.