

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Date of compilation:** 05.02.2009
- **1.1 Product identifier**
- **Trade name:** Whiteboard-Cleaner
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** no data available
- **Application of the substance / the preparation:** Cleaning material / Detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
 PUDOL Chemie GmbH & Co. KG Tel.: +49 (0) 2743/9212-0
 Bahnhofstraße 2 Fax: +49 (0) 2743/9212-71
 D-57520 Niederdreisbach
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Sales Tel.: +49 2743/9212-0
- **1.4 Emergency telephone number:** As above or next toxicological information centre.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Aqueous solution

· **Dangerous components:**

CAS: 64-17-5	Ethanol	☞ Flam. Liq. 2, H225; ☞ Eye Irrit. 2, H319	10-<25%
EINECS: 200-578-6			
Index number: 603-002-00-5			

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

· **Ingredients according to Regulation (EC) No 648/2004:**

perfumes

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
 Wash with plenty of soap and water.
 After prolonged skin contact defatting of skin possible, use skin protecting agent after prolonged skin contact.
 Consult doctor in case of symptoms.
- **After eye contact:**
 Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

(Contd. on page 2)

-GB-

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 1)

- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Danger:** Danger of pneumonia.
- **4.3 Indication of any immediate medical attention and special treatment needed** symptomatic treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Product does not burn - take extinguishing measures according to fire conditions.
- **5.2 Special hazards arising from the substance or mixture**
Flammable gases/vapours
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
If without risk possible, move drums with material away from dangerous area.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Remove all ignition sources.
Do not breathe vapour.
Avoid contact with skin and eyes.
Keep people at a distance and stay on the windward side.
- **6.2 Environmental precautions:**
Damp down gases/fumes/haze with water spray jet.
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
Do not breathe vapour/spray.
Avoid prolonged or repeated skin contact.
Avoid contact with eyes.
Open and handle container with care.
Avoid splashes or spray in enclosed areas.
Make sure that all applicable workplace limits are observed.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 2)

- **Information about protection against explosions and fires:**
Protect from heat and direct sunlight.
The product forms flammable fumes when heated.
Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Do not spray on flames or red-hot objects.
Flammable fume/air mixtures may be formed in empty containers.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
Observe regulations for storage of flammable liquids.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
- **Further information about storage conditions:**
Store container in a well ventilated position.
Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

64-17-5 Ethanol (10-<25%)

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

· **DNELs**

64-17-5 Ethanol

Oral	DNEL long-term exposure - systemic effects	87 mg/kg bw/d (general population)
Dermal	DNEL long-term exposure - systemic effects	206 mg/kg bw/d (general population) 343 mg/kg bw/d (wao)
Inhalative	DNEL long-term exposure - systemic effects	114 mg/m ³ (general population) 950 mg/m ³ (worker)
	DNEL acute / short-term exposure - local effects	950 mg/m ³ (general population) 1900 mg/m ³ (worker)

· **PNECs**

64-17-5 Ethanol

PNEC	0.96 mg/l (aqua (freshwater))
	2.75 mg/l (aqua (intermittent releases))
	0.79 mg/l (aqua (marine water))
	580 mg/l (STP (sewage treatment plant))
PNEC	3.6 mg/kg (sediment (freshwater))
	2.9 mg/kg (sediment (marine water))
	0.63 mg/kg (soil)

· **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 3)

*Do not inhale gases / fumes / aerosols.**Avoid close or long term contact with the skin.**Avoid contact with the eyes.**Do not eat, drink or smoke while working.**Wash hands during breaks and at the end of the work.**Apply solvent resistant clothing before beginning work.***· Breathing equipment:***If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.***· Recommended filter device for short term use:***Filter marking A (colour code brown), for filtering of organic gas/vapour with boiling point over 65 °C.***· Protection of hands:***Solvent resistant gloves.**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.**The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**Check the permeability prior to each renewed use of the glove.**To avoid skin problems reduce the wearing of gloves to the required minimum.***· Material of gloves***Butyl rubber - BR**Recommended thickness of the material: ≥ 0.5 mm**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.***· Penetration time of glove material***Protective gloves should be replaced at first signs of wear.**The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***· Eye protection:** Safety glasses**· Body protection:***Solvent resistant protective clothing**Body protection must be chosen depending on activity and possible exposure.***· Limitation and supervision of exposure into the environment***Do not allow to enter drainage system, surface or ground water.***SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	liquid
Colour:	colourless
Smell:	characteristic
Odour threshold:	not determined

· pH-value: not determined**· Change in condition**

Melting point/Melting range:	not determined
Boiling point/Boiling range:	> 80 °C

· Flash point: 37 °C (CC)
Does not support combustion.**· Inflammability (solid, gaseous)** not applicable**· Ignition temperature:** > 400 °C**· Decomposition temperature:** not determined

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 4)

· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· Critical values for explosion:	
Lower:	3.5 Vol % (Ethanol)
Upper:	15.0 Vol % (Ethanol)
· Oxidising properties	not classified as oxidising
· Vapor pressure at 20 °C:	~60 hPa
· Density:	not determined
· Relative density	not determined
· Vapour density (AIR = 1):	not determined
· Evaporation rate	not determined
· Solubility in / Miscibility with	
Water:	fully miscible
· Organic solvents:	not determined
· Partition coefficient (n-octanol/water):	not determined
· Viscosity:	
dynamic:	not determined
kinematic:	not determined
· 9.2 Other information	Further informations please refer to technical data sheet.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Keep away from sources of ignition - No smoking.
Avoid impact, friction, heat, sparks, electrostatic charges.
- **10.3 Possibility of hazardous reactions**
Danger of containers bursting because of high vapour pressure
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

64-17-5 Ethanol

Oral	LD50	5560 mg/kg (guinea pig)
		3450 mg/kg (mouse)
		7060 mg/kg (rat)
		6300 mg/kg (rabbit)
Inhalative	LC50/4 h	20000 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Long or repeated contact can defat skin and may cause dermatitis.
- **Serious eye damage/irritation** Short time, reversible irritating effect.

(Contd. on page 6)

-GB-

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 5)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

64-17-5 Ethanol

EC50/16 h	6500 mg/l (<i>pseudomonas putida</i>) (EC5/16h)
EC50/48 h	9268 mg/l (<i>water flea (daphnia magna)</i>)
LC50/48 h	8140 mg/l (<i>leuciscus idus</i>)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

- **Chemical Oxygen Demand (COD-value):** not determined
- **Biochemical Oxygen Demand (BOD5-value):** not determined

· General notes:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- **Recommendation** Disposal must be made according to official regulations.

· European waste catalogue:

07 01 99	wastes not otherwise specified
15 01 10*	packaging containing residues of or contaminated by dangerous substances

· Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water

GB

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: **Whiteboard-Cleaner**

(Contd. of page 6)

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 2012/18/EU does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for changes:**
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.
- **Relevant phrases**
The(se) H-phrases are those of the ingredient(s) and do(es) not necessarily represent the classification of the product.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
- **Department issuing SDS:**
C.S.B. GmbH Phone: +49 - 2151 - 652086-0
Düsseldorfer Str. 113 Fax: +49 - 2151 - 652086-9
47809 Krefeld / Germany
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.09.2016

Version number 8

Revision: 02.09.2016

Trade name: Whiteboard-Cleaner

(Contd. of page 7)

*PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

· **Sources:** These data are based on information submitted by pre-suppliers.

· *** Data compared to the previous version altered.**

GB