

WHITEBOARD-CLEANER

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

1.1 - Product identifier

Trade name/designation WHITEBOARD-CLEANER
Chemical name
Product-type Mixture

1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses - Consumer use of washing and cleaning products

1.3 - Details of the supplier of the safety data sheet

Berec AG
Industriestrasse 53
8625 Gossau ZH

1.4 - Emergency telephone number

Swiss Toxicological Information Centre
CH-8032 ZÜRICH
Tel.: +41 (0) 44 251 51 51
National emergency call: 145

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| | |
|--------------|---|
| Flam. Liq. 3 | Flammable liquid and vapour. - Category 3 |
| Eye Irrit. 2 | Eye irritation - Category 2 |

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning

Hazard pictograms



Hazard statements

| | |
|------|-------------------------------|
| H226 | Flammable liquid and vapour |
| H319 | Causes serious eye irritation |

Precautionary statements

| | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/eye protection/face protection. |

WHITEBOARD-CLEANER

| | |
|----------------|---|
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use Carbon dioxide (CO ₂)/dry powder/alcohol-resistant foam/extinguishing powder for extinction. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| EUH-phrases | : None |

Regulation (EC) No. 648/2004 (Detergents regulation)

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

| Chemical name | No | % | Class(es) | Specific concentration limit |
|--|--|--------------|---|------------------------------|
| ethanol, ethyl alcohol | CAS No. : 64-17-5 Index No. : 603-002-00-5 EC No. : 200-578-6 | >= 3 - <= 10 | Flam. Liq. 2 - H225 | Not applicable |
| propan-2-ol, isopropyl alcohol, isopropanol | CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7 | >= 3 - <= 10 | Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 (H336) - H336 | Not applicable |
| 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve | CAS No. : 111-76-2 Index No. : 603-014-00-0 EC No. : 203-905-0 | >= 3 - <= 5 | Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315 | ATE oral 1200 |

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.

Following skin contact - Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.
- Do NOT induce vomiting.

4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation - No information available.

WHITEBOARD-CLEANER

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Causes eye irritation.

Symptoms and effects - After ingestion - No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - No information available.

Hazardous decomposition products - No information available.

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.

For emergency responders - No information available.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

WHITEBOARD-CLEANER

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- Vapours can form explosive mixtures with air.
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only in well-ventilated areas.

Advices on general occupational hygiene

- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Flammable liquids
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Protect against: Heat

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

ethanol, ethyl alcohol (64-17-5)

| | |
|---------------------------------|------------------------|
| TWA EH40 ppm (UK) | 1000 ppm |
| TWA EH40 mg/m ³ (UK) | 1920 mg/m ³ |

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

| | |
|----------------------------------|------------------------|
| TWA EH40 ppm (UK) | 400 ppm |
| TWA EH40 mg/m ³ (UK) | 999 mg/m ³ |
| STEL EH40 ppm (UK) | 500 ppm |
| STEL EH40 mg/m ³ (UK) | 1250 mg/m ³ |

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

| | |
|-----------------------------------|----------------------------|
| IOELV TWA mg/m ³ (UE) | 98 mg/m ³ Skin |
| IOELV TWA ppm (UE) | 20 ppm Skin |
| IOELV STEL mg/m ³ (UE) | 246 mg/m ³ Skin |
| IOELV STEL ppm (UE) | 50 ppm Skin |
| TWA EH40 ppm (UK) | 25 ppm |
| TWA EH40 mg/m ³ (UK) | 123 mg/m ³ |
| STEL EH40 ppm (UK) | 50 ppm |
| STEL EH40 mg/m ³ (UK) | 246 mg/m ³ |

WHITEBOARD-CLEANER

DNEL / PNEC

ethanol, ethyl alcohol (64-17-5)

| Type | Value | User | Effect |
|------------------------------------|------------------------|-----------|----------|
| DNEL long-term oral (repeated) | 87 mg/kg bw/day | Consumers | Systemic |
| DNEL acute inhalative | 1900 mg/m ³ | Workers | Local |
| DNEL acute inhalative | 950 mg/m ³ | Consumers | Local |
| DNEL long-term inhalative | 950 mg/m ³ | Workers | Systemic |
| DNEL long-term inhalative | 114 mg/m ³ | Consumers | Systemic |
| DNEL long-term dermal | 343 mg/kg bw/day | Workers | Systemic |
| DNEL long-term dermal | 206 mg/kg bw/day | Consumers | Systemic |
| PNEC aquatic, freshwater | 960 mg/l | | |
| PNEC aquatic, marine water | 790 mg/l | | |
| PNEC aquatic, intermittent release | 2.75 mg/l | | |
| PNEC sediment, freshwater | 3.6 mg/kg | | |
| PNEC sediment, marine water | 2.9 mg/kg | | |
| PNEC Secondary Poisoning | 380 mg/kg | | |
| PNEC sewage treatment plant (STP) | 580 mg/l | | |

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

| Type | Value | User | Effect |
|------------------------------------|-----------------------|-----------|----------|
| DNEL long-term oral (repeated) | 26 mg/kg bw/day | Consumers | Systemic |
| DNEL long-term inhalative | 500 mg/m ³ | Workers | Systemic |
| DNEL long-term inhalative | 89 mg/m ³ | Consumers | Systemic |
| DNEL long-term dermal | 888 mg/kg bw/day | Workers | Systemic |
| DNEL long-term dermal | 319 mg/kg bw/day | Consumers | Systemic |
| PNEC aquatic, freshwater | 140.9 mg/l | | |
| PNEC aquatic, marine water | 140.9 mg/l | | |
| PNEC aquatic, intermittent release | 140.9 mg/l | | |
| PNEC sediment, freshwater | 552 mg/kg | | |
| PNEC sediment, marine water | 552 mg/kg | | |
| PNEC Secondary Poisoning | 160 mg/kg | | |
| PNEC sewage treatment plant (STP) | 2251 mg/l | | |

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

| Type | Value | User | Effect |
|------------------------------------|------------------------|-----------|----------|
| DNEL short-term oral (acute) | 26.7 mg/kg | Consumers | Systemic |
| DNEL long-term oral (repeated) | 6.3 mg/kg bw/day | Consumers | Systemic |
| DNEL acute inhalative | 1091 mg/m ³ | Workers | Systemic |
| DNEL acute inhalative | 246 mg/m ³ | Workers | Local |
| DNEL acute inhalative | 426 mg/m ³ | Consumers | Systemic |
| DNEL acute inhalative | 147 mg/m ³ | Consumers | Local |
| DNEL long-term inhalative | 98 mg/m ³ | Workers | Systemic |
| DNEL long-term inhalative | 59 mg/m ³ | Consumers | Systemic |
| PNEC aquatic, freshwater | 8.8 mg/l | | |
| PNEC aquatic, marine water | 0.88 mg/l | | |
| PNEC aquatic, intermittent release | 26.4 mg/l | | |
| PNEC sediment, freshwater | 34.6 mg/kg | | |
| PNEC sediment, marine water | 3.46 mg/kg | | |
| PNEC Secondary Poisoning | 0.02 mg/kg | | |
| PNEC sewage treatment plant (STP) | 463 mg/l | | |

WHITEBOARD-CLEANER

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection

- Suitable eye protection: Dust protection eye glasses

- Suitable protective clothing: lab coat



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

| <u>Physical state</u> | Liquid | <u>Appearance</u> | Liquid |
|-------------------------------|------------|------------------------|----------------|
| <u>Colour</u> | colourless | <u>Odour</u> | characteristic |
| Odour threshold | | No data available | |
| pH | | 5 | |
| Melting point | | No data available | |
| Freezing point | | No data available | |
| Boiling point | | No data available | |
| Flash point | | 37.5 °C | |
| Evaporation rate | | No data available | |
| flammability | | No data available | |
| Lower explosion limit | | No data available | |
| Upper explosion limit | | No data available | |
| Vapour pressure | | No data available | |
| Vapour density | | No data available | |
| Relative density | | No data available | |
| Density | | 0.98 g/cm ³ | |
| Solubility (Water) | | No data available | |
| Solubility (Ethanol) | | No data available | |
| Solubility (Acetone) | | No data available | |
| Solubility (Organic solvents) | | No data available | |
| Log KOC | | No data available | |
| Auto-ignition temperature | | No data available | |
| Decomposition temperature | | No data available | |
| Kinematic viscosity | | No data available | |
| Dynamic viscosity | | No data available | |

Particle characteristics

WHITEBOARD-CLEANER

| | |
|-------------------------|-------------------|
| Particle size | No data available |
| 9.2 - Other information | |
| VOC content | No data available |
| Minimum ignition energy | No data available |
| Conductivity | No data available |

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- In case of warming: Ignition hazard

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Not classified

Toxicity : Mixture

| | |
|---------------------------------------|-------------------|
| LD50 oral (rat) | No data available |
| LD50 dermal (rat) | No data available |
| LD50 dermal (rabbit) | No data available |
| LC50 inhalation (rat) | No data available |
| LC50 inhalation dusts and mists (rat) | No data available |
| LC50 inhalation vapours (rat) | No data available |

- Based on available data, the classification criteria are not met.

Toxicity : Substances

| | |
|---|-------------|
| propan-2-ol, isopropyl alcohol, isopropanol (67-63-0) | |
| LD50 oral (rat) | 5840 mg/kg |
| LD50 dermal (rabbit) | 13900 mg/kg |
| LC50 inhalation vapours (rat) | 5000 mg/l |
| 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2) | |
| LD50 oral (rat) | 1414 mg/kg |

WHITEBOARD-CLEANER

| | | |
|--|---|--------------|
| | LD50 dermal (rat) | > 2000 mg/kg |
| | LC50 inhalation vapours (rat) | 691 mg/l |
| <u>Skin corrosion/irritation</u> | - Not classified | |
| <u>Serious eye damage/eye irritation</u> | - Eye irritation - Category 2 - Causes serious eye irritation | |
| | - Irritating to eyes. | |
| <u>Respiratory or skin sensitisation</u> | - Not classified | |
| <u>Germ cell mutagenicity</u> | - Not classified | |
| <u>Carcinogenicity</u> | - Not classified | |
| <u>Reproductive toxicity</u> | - Not classified | |
| <u>STOT-single exposure</u> | - Not classified | |
| <u>STOT-repeated exposure</u> | - Not classified | |
| <u>Aspiration hazard</u> | - Not classified | |

11.2 - Information on other hazards

- This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

| | |
|-----------------------------------|-------------------|
| EC50 48 hr crustacea | No data available |
| LC50 96 hr fish | No data available |
| ErC50 algae | No data available |
| ErC50 other aquatic plants | No data available |
| NOEC chronic fish | No data available |
| NOEC chronic crustacea | No data available |
| NOEC chronic algae | No data available |
| NOEC chronic other aquatic plants | No data available |

Toxicity : Substances

| propan-2-ol, isopropyl alcohol, isopropanol (67-63-0) | |
|---|------------|
| EC50 48 hr crustacea | 1000 mg/l |
| LC50 96 hr fish | 9640 mg/l |
| ErC50 algae | > 100 mg/l |
| NOEC chronic algae | 1800 mg/l |
| 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2) | |
| LC50 96 hr fish | 1474 mg/l |
| NOEC chronic fish | 100 mg/l |
| NOEC chronic crustacea | 100 mg/l |
| NOEC chronic algae | 88 mg/l |

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

WHITEBOARD-CLEANER

12.2 - Persistence and degradability

| | |
|---------------------------------|-------------------|
| Biochemical oxygen demand (BOD) | No data available |
| Chemical oxygen demand (COD) | No data available |
| % of biodegradation in 28 days | No data available |

- No information available.

12.3 - Bioaccumulative potential

| | |
|-------------------------------|-------------------|
| Bioconcentration factor (BCF) | No data available |
| Log KOC | No data available |

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- The product contains a substance that is identified as having endocrine disrupting properties.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

14.1 - UN number or ID number

| | | |
|-------------------------|---|----------------|
| <u>UN number (ADR)</u> | : | UN1993 |
| <u>UN number (RID)</u> | : | UN1993 |
| <u>UN number (ADN)</u> | : | Not applicable |
| <u>UN number (IMDG)</u> | : | UN1993 |
| <u>UN number (IATA)</u> | : | Not applicable |

14.2 - UN proper shipping name

UN proper shipping name (ADR) : FLAMMABLE LIQUID, N.O.S.

WHITEBOARD-CLEANER

UN proper shipping name (RID) : FLAMMABLE LIQUID, N.O.S.

UN proper shipping name (IMDG) : FLAMMABLE LIQUID, N.O.S.

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 3

ADR Classification code: : F1

Pictograms



Transport hazard class(es) (RID) : 3

Pictograms



Transport hazard class(es) (IMDG) : 3

Pictograms



14.4 - Packing group

Packing group : III

Packing group (RID) : III

Packing group (IMDG) : III

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

ADR

ADR Classification code: : F1

ADR Special provisions : 274+601

ADR Limited quantity (LQ) : 5L

ADR Excepted quantities : E1

ADR Packing instructions : P001 IBC03 LP01 R001

ADR Special packing provisions :

ADR Mixed packing provisions : MP19

Instructions for portable tanks and bulk containers : T4

Special provisions for portable tanks and bulk containers : TP1 TP29

ADR tank code : LGBF

ADR tanks special provisions :

WHITEBOARD-CLEANER

| | | |
|---|---|-----|
| <u>Vehicle for tank carriage</u> | : | FL |
| <u>ADR Transport category</u> | : | 3 |
| <u>ADR Tunnel restriction code</u> | : | D/E |
| <u>ADR Special provisions loading, unloading and handling</u> | : | |
| <u>Special provisions - Packages</u> | : | V12 |
| <u>Special provisions - Bulk</u> | : | |
| <u>Special provisions - Operation</u> | : | S2 |
| <u>ADR Hazard identification number (Kemler No.)</u> | : | 30 |

RID

| | | |
|------------------------------|---|--|
| <u>Special provisions</u> | : | |
| <u>Limited quantity (LQ)</u> | : | |
| <u>Excepted quantities</u> | : | |

IMDG

| | | |
|--|---|-------------|
| <u>Special provisions</u> | : | 223 274 955 |
| <u>Limited quantity (LQ)</u> | : | 5 L |
| <u>Excepted quantities</u> | : | E1 |
| <u>Packing instructions</u> | : | LP01 P001 |
| <u>Special packing provisions</u> | : | |
| <u>IBC instruction(s)</u> | : | IBC03 |
| <u>IBC provisions</u> | : | |
| <u>Instructions for portable tanks and bulk containers</u> | : | T4 |
| <u>Special provisions for portable tanks and bulk containers</u> | : | TP1 TP29 |
| <u>EmS codes</u> | : | F-E, S-E |
| <u>Stowage and handling</u> | : | Category A |
| <u>Segregation</u> | : | |
| <u>Properties and observations</u> | : | |

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

Regulation (EC) No. 648/2004 (Detergents regulation)

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

WHITEBOARD-CLEANER

SECTION 16: Other information

SDS versions

| Version | Issue date | Author | Description of the amendments |
|---------|------------|--------|-------------------------------|
| 1 | 1/10/2023 | | |

Texts of the regulatory sentences

| | |
|-------------------------|---|
| Acute Tox. 4 Dermal | Acute toxicity (dermal) - Category 4 |
| Acute Tox. 4 Inhalation | Acute toxicity (inhalative) - Category 4 |
| Acute Tox. 4 Oral | Acute toxicity (oral) - Category 4 |
| Eye Irrit. 2 | Eye irritation - Category 2 |
| Eye Irrit. 2A | Eye irritation - Category 2A |
| Flam. Liq. 2 | Flammable liquid and vapour. - Category 2 |
| Flam. Liq. 3 | Flammable liquid and vapour. - Category 3 |
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |
| Skin Irrit. 2 | Irritation, Category 2 |
| STOT SE 3 (H336) | STOT-single exposure - Category 3 (H336) |

*** **