

SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2015/830]

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

1.1 Product identifier

Whiteboard cleaner

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

Relevant identified uses: product for cleaning whiteboards.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Producer: **Twinpol Sp. z o.o.**

Address: Lipowa 48, 87-126 Obrowo, Poland

Telephone/Fax number: +48 604 337 357

E-mail address for a competent person responsible for SDS: info@twinpol.com

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 2 H225, **Eye Irrit. 2** H319, **STOT SE 3** H336

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2 Label elements

Hazard pictograms and signal words



Danger

Product identifier

Contains: propan-2-ol.

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH

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Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

| | | |
|---|--|--------|
| CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 REACH number: 01-2119457558-25-XXXX | <u>propan-2-ol</u> Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H336 | 70-85% |
|---|--|--------|

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: wash the contaminated skin thoroughly with plenty of water with soap. Take off all contaminated clothing. Wash contaminated clothing before reuse. Consult a doctor if disturbing symptoms appear.

Eye contact: remove contact lenses. Wash the contaminated eye with plenty of water for 10-15 minutes. Avoid powerful water stream – risk of cornea damage. Consult a doctor if disturbing symptoms appear.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, show the container or label.

Inhalation: consult a doctor if disturbing symptoms appear. Move the victim to fresh air. Keep victim warm and calm.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: possible redness, skin dryness, skin cracking, degreasing of the skin.

Eye contact: possible redness, tearing, burning sensation, irritation.

Ingestion: possible stomach pain, vomiting, nausea, diarrhea, decreased concentration, dizziness, drowsiness.

Inhalation: decreased concentration, headaches and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, extinguishing powder, extinguishing foam resistant to alcohols. CO₂.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce harmful fumes of carbon oxides and other unidentified pyrolysis products. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Highly flammable. Product vapours are heavier than air and accumulate in the lower parts of the premises. There is a high probability that an explosive mixture will form with air - in the event of such danger, order an immediate evacuation. Cool endangered containers from a safe distance with a spray of water. Collect used extinguishing media.

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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of large spills, isolate the exposed area. Avoid skin and eyes contamination. Do not step on the spilled material - risk of slipping. Ensure adequate ventilation. Avoid breathing vapours. Use personal protective measures. Prohibit smoking and using open fire.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services. Secure sewers, water installation and entrances to basements and closed areas.

6.3 Methods and material for containment and cleaning up

Place damaged containers in sealed protective containers. Spillages collect with incombustible liquid absorbing materials (e.g. soil, sand, silica, universal binding agent, vermiculite etc.) and place them in a labelled container. Treat the collected material as waste. Ventilate and clean contaminated area with a large amount of water.

6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke during work. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Ensure adequate ventilation. Before break and after work wash hands. Unused containers keep tightly closed. Do not smoke. Remove all sources of ignition. Avoid the formation of electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original, tightly closed containers in a cool, dry and well ventilated area. The storage areas should be kept at a temperature of up to 30 °C. Keep away from food, beverages or feed for animals. Keep the container tightly closed and store it in an upright position to avoid leakage. Do not use used packaging for other purposes.

7.3 Specific end use(s)

There is no information about other uses than mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

This product does not contain components with occupational limit values established on the Community level.

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164

Please check any national occupational exposure limit values in your country.

8.2. Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation to ensure the maintenance of concentrations of hazardous components in the air below the exposure limit values. If there is a risk of inflammation of the clothing on worker, safety showers and eye washers should be installed near the workplace.

Hand and body protection

Use appropriate protective gloves in the event of prolonged or direct contact with the product. Recommended material for gloves: nitrile rubber with a level of effectiveness of 2 or more. Use antistatic protective clothing.

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The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eyes protection

Wear tightly fitting protective glasses if there is a risk of eye contamination.

Respiratory protection

If the product is used normally and in accordance with the intended use, the protection is not required. If the permissible concentrations are exceeded in the workplace or in emergency situations, use absorbing or absorbing and filtering equipment of appropriate protective class.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Environmental exposure controls

Avoid contamination of the environment, do not empty into drains. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---------------------------|
| physical state: | liquid |
| colour: | colourless |
| odour: | characteristic, alcoholic |
| odour threshold: | not determined |
| pH: | not determined |
| melting point/freezing point: | not determined |
| initial boiling point and boiling range: | 82°C |
| flash point: | < 23°C |
| evaporation rate: | not determined |
| flammability (solid, gas): | not applicable |
| upper/lower flammability or explosive limits: | 12%/2% vol. (propan-2-ol) |
| vapour pressure: | not determined |
| vapour density: | not determined |
| density: | < 1 g/cm ³ |
| solubility(ies): | soluble in water |
| partition coefficient: n-octanol/water: | not determined |
| auto-ignition temperature: | not determined |
| decomposition temperature: | not determined |
| explosive properties: | not display |
| oxidising properties: | not display |
| viscosity: | not determined |

9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

Reactive product, it does not undergo dangerous polymerization. Vapours of the product may form explosive mixtures with air. See also subsection 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

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10.3 Possibility of hazardous reactions

At temperatures above 50 °C, the product reacts with aluminum.

10.4 Conditions to avoid

Avoid direct exposure to sunlight, heat and fire sources.

10.5 Incompatible materials

Strong oxidants, metals, acids.

10.6 Hazardous decomposition products

There are no decomposition products in recommended storage and work conditions.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Components toxicity

propan-2-ol

LC₅₀ (inhalation, rat): 16 000 ppm/4h

LD₅₀ (oral, rat): 5 045 mg/kg

Mixture toxicity

Acute toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

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

Product vapors may cause headaches and dizziness.

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

The product is not classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

The propan-2-ol contained in the product is biodegradable in 70% within 10 days.

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12.3 Bioaccumulative potential

propan-2-ol: not subject to bioaccumulation (log Po / w 0.05)

12.4 Mobility in soil

The product is mobile in soil and in aquatic environment.

12.5 Results of PBT and vPvB assessment

Not applicable. Components do not meet the PBT or vPvB criteria.

12.6 Other adverse effects

The mixture is not classified as hazardous for the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Store residues in original containers. Do not empty into drains. Waste code should be given in the place of waste formation.

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled. Recommended waste code: 15 01 02 (plastic packaging).

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number

UN 1219

14.2 UN proper shipping name

ADR/RID **ISOPROPANOL**

IMDG **ISOPROPANOL**

IATA **ISOPROPANOL**

14.3 Transport hazard class(es)

3



14.4 Packing group

II

14.5 Environmental hazards

Product is not classified as hazardous in accordance with transport regulations.

14.6 Special precautions for user

Use personal protective equipment in accordance with section 8 when handling the cargo. Keep away from ignition sources.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

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Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

15.2 Chemical safety assessment

In accordance with REACH regulation, chemical safety assessment is not required for mixtures.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Clarification of aberrations and acronyms

| | |
|--------------|---|
| Flam. Liq. 2 | Flammable liquid category 2 |
| Eye Irrit. 2 | Serious eye irritation category 2 |
| STOT SE 3 | Specific target organ toxicity — single exposure category 3 |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| vPvB | very Persistent, very Bioaccumulative substance |

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. People associated with transport of hazardous materials in accordance with ADR should be adequately trained for their job responsibilities (general training, bench and safety).

Key literature references and data sources

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Classification and procedures used to classify the mixture in accordance with Reg. EC 1272/2008

| | |
|-------------------|--|
| Flam. Liq. 2 H225 | based on the ignition temperature test |
| Eye Irrit. 2 H319 | calculation method |
| STOT SE 3 H336 | calculation method |

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.