



SAFETY DATA SHEET

prepared in accordance with Article 31 of Regulation (EC) (No 1907/2006 (REACH)
and Regulation (EU) No. 2015/830

Version
1.0

Date of issue
01.10.2017

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

PŁYN D.RECT DO CZYSZCZENIA TABLIC SUCHOŚCIERALNYCH 250 ml

Index name:

110453 PŁYN D.RECT DO CZYSZCZENIA TABLIC SUCHOŚCIERALNYCH 250 ml

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

1.2.1. Relevant identified uses

Dry erase whiteboard cleaner

1.2.2. Uses advised against

None.

1.3. Details of the supplier of the safety data sheet

Leviatan-Poligrafia Sp. z o.o.

ul. Rudawka 88

43-300 Bielsko-Biała, POLAND

Phone. +48 33 443 21 10

e-mail of person responsible of SDS: leviatan@leviatan.pl

1.4. Emergency telephone number:

112 – emergency number

+48 33 443 21 01 (8.00 am-4.00 pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to the Regulation (EC) No 1272/2008:

Product classified as hazardous

Eye Irrit. 2 H319 Causes serious eye irritation.

Physico-chemical hazards: none

Health hazards: causes serious eye irritation

Environmental hazards: none

2.2. Label elements

According to the Regulation (WE) 1272/2008:

Pictograms:



GHS07

Signal Word:

WARNING

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statement:

P102 Keep out of reach of children.



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P264 Wash hands thoroughly after handling.

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

Product does not meet PBT or vPvB criteria according to XIII of REACH regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product is a mixture. Contains hazardous ingredients provided below, and/or other non-hazardous components or components present in the mixtures below threshold values:

Name	CAS EC Index No REACH Registration No	Content % w/w	CLP classification
propan-2-ol*	67-63-0 200-661-7 603-117-00-0 Nie dotyczy**	10 – <20	Flam. Liq. 2, H225 Eye Dam. 1, H319 STOT SE 3, H336
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0 263-058-8 Not assigned Not applicable**	0,1 – 1,5	Aquatic Acute 1, H400 Skin Irrit. 2, H315 Eye Irrit. 2, H319

* substance potentially applied with TLV's – mandatory check relevant national regulation

** substance or its use is exempted from registration obligation or annual tonnage does not require registration

Full length of H phrases is given in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General recommendations:

Stop contact/exposure. In case of contact with the product causing indisposition call a professional medical service immediately. Show the label or safety data sheet to the doctor. Inform doctor about the first aid treatment provided. Do not give anything by mouth to an unconscious person. Remove contaminated clothing.

Contamination of the skin:

Wash off with soap and water and rinse well. Seek medical advice in case of persistent skin irritation. Remove contaminated clothing and shoes.

Contamination of the eyes:

Rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present. Continue flushing for at least 10 minutes. Get immediate medical attention or go to a doctor

Inhalation:

Remove affected person from the place of exposure. Ensure fresh air and warmth. Consult a doctor if symptoms persist.

Ingestion:

After ingestion rinse mouth and drink plenty of water. In case of persistent symptoms consult a doctor.

Protection of first-aiders:

Do not take any action that would pose a risk to anyone unless you are properly trained.



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

Acute symptoms - eye irritation, skin irritation

Delayed symptoms - no data available

Effects of exposure - no data available

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

Note to Physician: no antidote, apply symptomatic treatment.

When contacting the company's emergency number or poison centre, carry the product container, label or this safety data sheet

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

For small fires - extinguishing powders, carbon dioxide, alcohol-resistant foams, water spray

For large fires - water spray, extinguishing foams

Unsuitable extinguishing media:

Not specified. Adapt to extinguished objects.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products and poisonous gases may be released during a fire.

5.3. Advice for fire-fighters

Wear personal breathing apparatus with full face shield, protective goggles, gloves, boots. Use water spray to suppress releasing vapours. Avoid discharge of extinguishing water into drains, surface or ground water.

General recommendations:

remove unauthorised persons not involved in firefighting from the affected area. If possible, remove product packaging not involved in the fire from the affected area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Wear protective goggles, protective clothing and protective gloves. Collect spillages. Clean up contaminated area. Avoid release to water, waste water and soil. Do not inhale product mist/aerosol.

For emergency personnel: no specific requirements.

6.2. Environmental precautions

Avoid entering drains, groundwater, soil and open water courses.

6.3. Methods and material for containment and cleaning up

Treat the spill with a suitable sorbent (sand, sawdust, diatomaceous earth, universal sorbent), collect in labelled containers and hand over for disposal. Clean the contaminated area. Ensure adequate ventilation.

6.4. Reference to other sections

Safe handling - Section 7

Personal protective equipment - Section 8.

Waste treatment - Section 13.



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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure adequate ventilation in work area. Read label and instructions before use. Avoid contact with skin and eyes, do not inhale vapours.

Industrial hygiene:

- proper ventilation during work indicated (general ventilation and local exhaust ventilation)
- provide a place to rinse eyes and hands in case of contamination
- wash hands with soap and water before eating, smoking and after finishing work
- the usual precautions for handling chemicals should be followed.

Special precautions against fire and explosion: Not applicable

7.2. Conditions for safe storage, including any incompatibilities.

Dry room in tightly closed container. Keep away from heat, direct sunlight and fire. Keep away from children. Avoid contact with food, fodder. Do not store near incompatible materials (see Section 10).

7.3. Specific end use(s)

No additional information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limit Value:

There might be exposure standards allocated to: 2-butoxyethanol. Mandatory check TLV's provided for particular country.

DNELs (Derived No Effect Levels) available for mixture components:

propan-2-ol (CAS: 67-63-0)								
Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
Inhalation	500 mg/m ³	-	-	-	89 mg/m ³	-	-	-
Dermal	888 mg/kg bw/day	-	-	-	319 mg/kg bw/day	-	-	-
Oral					26 mg/kg bw/day	-	-	-
Eye	-				-			

8.2. Exposure controls

Technical exposure controls:

Mechanical general ventilation of the room is sufficient for operation at normal temperatures. Additional local ventilation may be required when vapour concentrations in the air may exceed safe levels.

Personal protection measures

The need of use and selection of appropriate personal protective equipment should depend on type of threat posed by the product, workplace conditions and handling of the product. Use protective equipment from reputable manufacturers.

Respiratory protection

not required with adequate general ventilation. If unacceptable concentrations are exceeded, use respirators with an A/P filter.

Hand protection - protective gloves recommended

The resistance of the glove material has to be tested before use. The penetration time of the glove has to be found out by the manufacturer of the gloves and has to be observed. It is recommended to change gloves regularly and to replace them immediately if there are any signs of wear, damage (tears, perforations) or



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changes in appearance (colour, elasticity, shape).

Eye protection

Use safety goggles with side-shields.

Skin protection

Protective clothing recommended

Protective equipment standards:

EN 140:2001 Respiratory protective devices – Half masks and quarter masks – Requirements, testing, marking.

EN 143:2004 Respiratory protective devices – Particle filters – Requirements, testing, marking.

EN 149+A1:2010 Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking.

EN 14387+A1:2010 Respiratory protective devices – Gas filter(s) and combined filter(s) – Requirements, testing, marking.

EN 374-1:2017-01 Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks.

EN 374-2:2015-04 Protective gloves against dangerous chemicals and micro-organisms – Part 2: Determination of penetration resistance.

EN 16523-1+A1:2018-11 Determination of material resistance to permeation by chemicals – Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact.

EN 166:2005 Personal eye protection. Specifications.

EN 14605+A1:2010 Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).

EN ISO 20344:2012 Personal protective equipment – Test methods for footwear

Environmental exposure controls:

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

PNECs (Predicted No Effect Concentrations) for mixture components:

propan-2-ol (CAS: 67-63-0)

Environment compartment

Environment compartment	PNEC
Freshwater:	140.9 mg/L
Intermittent releases (freshwater):	140.9 mg/L
Marine water:	140.9 mg/L
Intermittent releases (marine water):	-
Sewage treatment plant:	2.251 g/L
Sediment (freshwater):	552 mg/kg sediment dw
Sediment (marine water):	552 mg/kg sediment dw
Air:	-
Soil:	28 mg/kg soil dw
Hazard for Predators:	160 mg/kg food

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Colourless liquid
Odour:	Characteristic for propan-2-ol
Odour threshold:	No data
pH:	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data



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Evaporation rate:	No data
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density (20°C):	Approx.. 1 g/cm ³
Solubility in water:	Fully miscible
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No components with explosive properties
Oxidising properties:	No components with oxidising properties

9.2. Other information

No data

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Product is non-reactive in normal condition of storage and handling

10.2. Chemical stability:

Product is stable under normal conditions.

10.3. Possibility of hazardous reactions:

Not known.

10.4. Conditions to avoid:

Not known.

10.5. Incompatible materials:

Strong oxidisers

10.6. Hazardous decomposition products:

Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Product was not tested for toxicological properties. Hazard classification was conducted according to regulation 1272/2008 by calculation methods based on hazardous ingredients content.

Acute toxicity:

Acute Oral Toxicity: product does not meet criteria for classification, $ATE_{mix} > 2000$ mg/kg

Acute Dermal Toxicity: product does not meet criteria for classification, $ATE_{mix} > 2000$ mg/kg

Acute Inhalation Toxicity: product does not meet criteria for classification, $ATE_{mix} > 5$ mg/l

Skin corrosion/irritation:

product does not meet criteria for classification

Serious eye damage/irritation:

product classified as irritant to eyes

Respiratory or skin sensitisation:

product does not meet criteria for classification

Germ cell mutagenicity:

product does not contain any compounds with germ cell mutagenicity hazard

Carcinogenicity:



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product does not contain any compounds with carcinogenic hazard

Reproductive toxicity:

product does contain compounds with reprotoxic hazard (boric acid)

STOT-single exposure:

Product classified as may cause drowsiness or dizziness

STOT-repeated exposure:

product does not met criteria for classification

Aspiration hazard:

product does not met criteria for classification

Potential health hazards:

Ingestion: no data

Inhalation: no data

Skin: no data

Eyes: irritant to eyes

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Product was not tested for ecotoxicological properties. Hazard classification was conducted according to regulation 1272/2008 by calculation methods based on hazardous ingredients content.

Product is not classified as environmentally hazardous.

12.2. Persistence and degradability:

No information for the product available.

12.3. Bioaccumulative potential:

No information for the product available.

12.4. Mobility in soil:

No information for the product available.

12.5. Results of PBT and vPvB assessment:

Based on available data, the product does not meet the criteria for PBT and vPvB assessment

12.6. Other adverse effects:

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Waste from residues/unused products:

Avoid creating product waste. Residues of the product should be treated as hazardous waste. The level of risk of waste containing this product should be assessed in accordance with current legislation. Disposal should be made by a company authorised to dispose of hazardous waste in accordance with national and local regulations. Do not discharge into drains, water or soil. Specify the waste code based on the hazards presented by the waste.

Disposal of used packaging:

Contaminated packaging is not hazardous packaging waste. It should be recovered or disposed of in accordance with national packaging waste management regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number:

Not applicable



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14.2. UN proper shipping name:	Not applicable
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
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

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 from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- 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
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European agreement concerning international road transport of dangerous products (ADR)
- *Federal, State and Local regulations.*

15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product

SECTION 16. OTHER INFORMATION

Recommendations and restrictions on use: Use in accordance with the label-instructions.

Explanation of abbreviations and acronyms used in the SDS:

Acute Tox. 4, H302 Harmful if swallowed
Acute Tox. 4, H312 Harmful in contact with skin
Acute Tox. 4, H332 Harmful if inhaled
Skin Irrit. 2, H315 Causes skin irritation
Eye Irrit. 2, H319 Causes serious eye irritation
Aquatic Acute 1, H400 Very toxic to aquatic life

CAS – Chemical Abstracts Service

EC – number assigned to chemical substance in European Inventory of Existing Chemical Substances or European List of Notified Chemical Substances or in No Longer Polymers list.

ATEmix – acute toxicity estimate for mixtures

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high persistence and very Bioaccumulative

TLV – threshold limit value

LC50 – lethal concentration, 50%

EC50 – effect concentration, 50%

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road

IMDG – International Maritime Dangerous Goods Code

This safety data sheet has been prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006.

The classification of the product is based on the content of hazardous components in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council



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References used to compile the safety data sheet: safety data sheet was prepared on the basis of the safety data sheet for the product, literature data and our knowledge and experience, taking into account the current legislation in force.

C&L Inventory
ECHA

Disclaimers:

The data contained in the Charter should be regarded only as an aid to safe handling in transport, distribution, use and storage. The user shall bear liability arising from improper use of the information contained in the Safety Data Sheet or from incorrect application of the product.

Safety Data Sheet prepared by Chemical Consulting Bureau Grzegorz Żmijowski, B. Śmiałego 1/71, 43-200 Pszczyna, Poland.