

Safety Data Sheet**Compliant with the Regulation of the Commission (EU) No. 2015/830 of 28 May 2015****SECTION 1: Identification of the substance and of the company/undertaking****1.1. Product identifier**Commercial name: **DEZI****(R-DEZI-150-EN, R-DEZI-400-EN)**

Universal disinfectant

UFI: 3910-J02P-700D-R8P1

1.2. Relevant identified uses of substance or mixture and uses advised against**Identified use:** The product is intended for hygienic disinfection of hands, table tops, handrails and personal items such as: computer keyboard, mouse, phone, toilet seat, etc.**Not recommended use:** other than presented above.**1.3. Details concerning the supplier of the safety data sheet**

Company name and address: Manufacturer:
Rytm-L Sp. z o. o., Strefowa 14 Street, 43-100 Tychy,
Poland, phone/ fax (+48 32) 324 00 00

Distributor:
Name and address: Rawlplug S.A. ul. Kwidzyńska 6, 51-416
Wrocław, Poland
Telephone number: +48 (0) 71 32 60 100
Fax number: +48 (0) 71 37 26 111

Information about the product:
+ 48 32 324 00 17
[mail: chb_karty@rytm-l.pl](mailto:chb_karty@rytm-l.pl)

1.4. Emergency phone number : + 48 32 324 00 17 Monday-Friday from 8:00 to 16:00
998, 112, the nearest department of the State Fire Service

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****The mixture is classified as hazardous**

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

Class	Category	Phrase indicating the type of hazard
Flam. Aerosol	1	H222: Extremely flammable aerosol.
Flam. Aerosol	1	H229: Pressurized container: may burst if heated.
Eye Irrit.	2	H319: Causes serious eye irritation.

2.2 Label elements**Warning symbols: REGULATION (EC) No. 1272/2008****DANGER**

Phrases indicating the type of hazard:

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

Phrases indicating precautions:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P211 Do not spray on an open flame or other ignition source.

P260 Do not breathe vapours/spray.

P280 Wear eye protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses if present and easy to do. Continue rinsing.

Warning information:

Read label before use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Dispose of contents/container to/ accordance with national regulation.

Contains: ethanol, D-gluconic acid, compound with N, N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)

2.3 Other hazards:

There is no information about meeting the PBT and vPvB criteria in accordance with the Annex XIII REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Content [%]	CAS No.	EC No.	Classification according to the REGULATION (EC) No. 1272/2008
Ethyl alcohol 01-2119457610-43-xxxx	88	64-17-5	200-578-6	Eye Irrit.2 H319 Flam. Liq.2 H225
D-gluconic acid compound with N, N''- bis(4-chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediami- dine (2:1) 01-2119946568-22-XXXX	0,19	18472-51- 0	242-354-0	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318

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Propane 01-2119486944-21-xxxx	10	74-98-6	200-827-9	Flam. Gas 1 H220
Butane 01-2119474691-32-xxxx		106-97-8	203-448-7	Press. Gas
Isobutane 01-2119485395-27-xxxx		75-28-5	200-857-2	
1) Mixture liquefied under pressure				

The full text of the phrases presented in the classification table is located in section 16 of the SDS.

1) **The mixture with isobutane contains < 0,1% of 1,3-Butadiene and (in accordance with the classification regulations) is not carcinogenic or mutagenic.**

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Ensure fresh air. Give oxygen or wear a breathing apparatus (if necessary). If necessary, provide medical assistance.
Contact with eyes:	Rinse eyes (at least 15 minutes) with plenty of cool water – preferably running water (avoid strong water stream due to the risk of mechanical damage of the cornea). If necessary, call a doctor. Note: Persons exposed to eye contamination should be advised of the necessity and method of immediate eye rinsing.
Contact with skin:	Not applicable
Swallowing:	Give an injured person a lot of water to drink. Do not induce vomiting. Call a doctor.

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

Not applicable.

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

Show the physician this SDS.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Appropriate	carbon dioxide, extinguishing powders, foams, water – dispersed stream
Inappropriate	direct water stream

5.2. Special hazards arising from the substance or mixture

The product is extremely flammable. Vapors are heavier than air – they may persist on the ground and move through ventilation ducts. Closed containers, which are exposed to fire or high temperature, may explode as a result of pressure increase inside them. Carbon oxides are formed in the fire environment. Avoid breathing combustion products – they can pose a health risk.

5.3. Advice for firefighters

Extinguish small fires with a powder or snow extinguisher; extinguish large fires with foam or diffused water streams; use remote sprinkler devices or fight fire from behind protective covers – risk of explosion. Cool containers exposed to fire or high temperature with water (from a safe distance) – risk of explosion; if possible and safe, remove them from the danger area. Wastewater after fire-fighting should not reach sewage system and waters. Follow the procedures in force to fight chemical fires. Persons involved in fire-fighting should be trained, equipped with protective clothing and breathing apparatus with an independent air supply.

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedure

For non-emergency personnel

Protective equipment: For non-emergency personnel, personal protective equipment is not required. Persons, who are not involved in the liquidation of an emergency situation, should move away from the place of accident.

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Protective procedures: Secure the product and place of failure against unauthorized persons. Avoid inhalation of vapors. Remove all potential sources of ignition.

For emergency personnel: Use personal protection measures determined in section 8.

6.2. Environmental precautions

Do not release the product into sewage. Destroy empty (pressurized) containers.

6.3. Methods and material for containment and cleaning up

Spilled material must be removed mechanically. Collect the remaining part of the material with a liquid absorbing substance (e.g. wood flour, diatomaceous earth, sand). Collect into a waste container, hand over for liquidation. Wash contaminated surface with water.

6.4. Reference to other sections

For further information about waste disposal – see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Remove all sources of ignition and sources of open flame – do not smoke. Pressurized container: protect from sunlight and temperature above 50°C. Do not pierce or burn (even after use). Take precautions against static discharge

Do not spray on an open flame or glowing material. Use in accordance with instructions on the label. Ensure appropriate ventilation of work rooms. Do not mix with other chemical products.

7.2. Conditions for safe storage, including any incompatibilities

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Store in original, tightly closed containers in an upright position. Preserve storage instructions for extremely flammable aerosol products.

Keep away from sources of ignition and open flame – do not smoke. Do not store along with strong acids, strong bases and oxidizing or reducing agents, rubber, plastics, aluminum and light metals. Pressurized container: protect from sunlight and temperature above 50°C. Keep away from children. Recommended storage temperature: from +5°C to +35°C. Do not store with food and drinks.

7.3. Specific end use(s)

No information about uses other than uses presented in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- **ethanol** NDS –1900 mg/m³ NDSCh- undefined
NDSP- undefined
- **butane** NDS – 1900 mg/m³ NDSCh – 3000 mg/m³
- **propane** NDS – 1800 mg/m³ - undefined
- **isobutane** NDS - 1900 mg/m³ - undefined

DNEL

Ethanol	DNEL	for employees	by inhalation	long-term exposure	systemic effects	950 mg/m ³
	DNEL	for employees	by inhalation	acute exposure	systemic effects	1 900 mg/m ³
	DNEL	for employees	by contact with skin	long-term exposure	systemic effects	343 mg/kg bw/day
	DNEL	for consumers	by inhalation	long-term exposure	systemic effects	114 mg/m ³

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	DNEL	for consumers	by inhalation	acute exposure	systemic effects	950 mg/m ³
	DNEL	for consumers	by contact with skin	long-term exposure	systemic effects	206 mg/kg bw/day

PNEC

Ethanol	PNEC	Fresh water	0,96 mg/l	(AF = 10)
	PNEC	Sea water	0,79 mg/l	(AF = 100)
	PNEC	Sediment (fresh water)	3,6 mg/kg	
	PNEC	Sediment (sea water)	2,9 mg/kg	
	PNEC	Soil	0,63 mg/kg	(AF = 100)
	PNEC	Sewage treatment plant (STP)	580 mg/l	(AF = 10)
	PNEC	Periodic release	2,75 mg/l	(AF = 100)

Comment

TLV in accordance with the Ordinance of the Minister of Family, Labor and Social Policy of 12 June 2018, Journal of Laws of 2018, item 1262, as amended.

Permissible biological values - commentary

No data available

Recommended monitoring procedures

Ordinance of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2011, No. 33, item 166).

8.2. Exposure controls

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Technical control measures

General and local exhaust ventilations are recommended to maintain exposure to vapors below the recommended limits.

Explosion proof ventilation.

Provide eye washes and safety showers near the workplace.

Individual protection measures**Respiratory protection**

Under normal conditions, no personal respiratory protection equipment is required. Use a mask with a suitable filter in the case of vapors or aerosol. Recommended type of a filter: A/P2

Eye protection

Tight protective goggles. Safety glasses.

Protection of hands and skin

Protective gloves. Penetration time \geq 240 min. Thickness of gloves. Nitrile gloves: 0.3 mm. Butyl rubber gloves: 0.7 mm.

Other protective equipment:

Antistatic protective clothing.

Regulatory references

Personal protective equipment should meet the requirements of the Regulation (EU) No. 2016/425 of the European Parliament and the Council of 9 Marc 2016 on personal protective equipment.

General recommendation:

Do not eat or drink while using the product. Wash hands before each break and after completion of work. Avoid eyes and skin contamination.

Environmental exposure control

The product should not enter sewage system, surface and ground water or soil.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Aerosol: in a pressure container – colorless liquid
Smell	characteristic
pH	7.0
Boiling point	approx. 78 °C (for ethyl alcohol) -42 °C - 0 °C (propane/butane/isobutane)
Flash point	approx. 17 °C (for ethyl alcohol) 365 °C (for propane/butane/isobutane)
Evaporation rate	No data available
Flammability (solid/gas)	Extremely flammable aerosol
Explosion limits	lower: 3.5% vol. (for ethyl alcohol) upper: 15.0% vol. (for ethyl alcohol) lower: 1.5% vol. (for propane/butane/isobutane) upper: 10.9% vol. (for propane/butane/isobutane)
Vapor pressure at 20 °C	59 hPa (for ethyl alcohol) 1200-7500 hPa (for propane/butane/isobutane)
Relative density	approx. 0.83 (for water: 1.0 g/cm ³) for mixture
Water solubility	Soluble
Solubility in organic solvents	The majority of organic solvents
Temperature of self-ignition	approx. 373 °C (for ethyl alcohol)
Decomposition temperature	No data available
Explosive properties	No data available
Oxidizing properties	No data available

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9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions during the use and storage in accordance with regulations.

10.2. Chemical stability

The mixture is stable under recommended conditions of use.

10.3. Possibility of hazardous reactions

Under standard conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

High temperature, fire, sparks and other sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents, concentrated acids (nitric, sulfuric) and their mixtures, alkalis. It softens or dissolves some plastics.

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10.6. Hazardous decomposition products

Carbon oxides are formed during a fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity by the oral route

Ethanol	LD50	7 060 mg/kg	rat
	LD50	3 450 mg/kg	mouse
	LD50	6 300 mg/kg	rabbit

Acute toxicity through the skin

No data available

The product does not pose a serious health risk if it is used properly.

Acute toxicity by inhalation

Ethanol	LC50	20 000 ppm	10 h	rat
	LC50	39 mg/m ³	4 h	mouse

Acute toxicity by other routes of administration

No data available

Skin corrosion /irritation

Based on available data, the classification criteria were not met

Serious eye damage / eye irritation

Irritant effect

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Respiratory sensitization

It is not allergic

Skin sensitization

It is not allergic

Germ cell mutagenicity**Summary**

Based on available data, the classification criteria were not met

Carcinogenicity**Summary**

Based on available data, the classification criteria were not met

Harmful to reproduction

Ethanol	NOAEL	13,8 g/kg	mouse	guidelines of OECD 416	orally
	NOAEL	> 16,000 ppm	rat		inhalation
	NOAEL	5,2 g/kg		guidelines of OECD 414	orally
	NOAEL	39 mg/l		guidelines of OECD 414	inhalation

Summary

Based on available data, the classification criteria were not met

Toxic effects on target organs - single exposure**Summary**

Based on available data, the classification criteria were not met

Toxic effects on target organs - repeated exposure**Summary**

Based on available data, the classification criteria were not met

Hazard caused by aspiration

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Based on available data, the classification criteria were not met

Information about possible routes of exposure

Skin contact.

Inhalation.

Consumption.

Symptoms connected with physical, chemical and toxicological properties.

Contact with eyes.

Reddening.

Tearing.

Irritation.

Skin contact.

Dryness.

After prolonged exposure

Skin cracking

Inhalation.

Cough

Dizziness

Headache

Nausea

Narcotic effects

Somnolence

Coma

Dyspnoea

Consumption.

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Nausea

Vomiting

Abdominal pain

Breathing difficulties

Dizziness

Headache

Somnolence

Delayed, immediate and chronic effects connected with short-term and long-term exposure

Eye irritation

Skin irritation

Respiratory irritation

Depressive effect on the central nervous system

Inflammations

Liver disorder

Kidney problems

Circulatory disorders.

SECTION 12: Ecological information

12.1. Toxicity

Ethanol	Toxicity to fish	LC50	7 110 mg/l	48 h	Leuciscus idus melanotus
	Toxicity to fish	LC50	8 140 mg/l	48 h	Leuciscus idus

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					melanotus
	Toxicity to aquatic invertebrates	LC50	> 10 000 mg/l	24 h	Daphnia magna
	Toxicity to aquatic invertebrates	LC50	7 750 mg/l	96 h	Nitocra spinipes
	Toxicity to aquatic plants	LC50	7 750 mg/l		Chlorella pyrenoidosa

12.2. Persistence and degradability

Ethanol Biodegradability 84 %	Ethanol Biodegradability 84 %	Ethanol Biodegradability 84 %
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Summary

Well biodegradable.

12.3. Bioaccumulative potential

Ethanol	Partition coefficient: noctanol / water	LogPow	-0.35
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It does not bioaccumulate.

12.4. Mobility in soil

Summary

The product evaporates quickly. The product penetrates into the soil. The product is water soluble. The product (after release) spreads in water.

12.5. Results of PBT and vPvB assessment

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The product does not meet the criteria for PBT or vPvB – in accordance with the Annex XIII of the Regulation (EC) No. 1907.2006.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Preparation

Do not dispose directly to the environment (to sewage system, wastewater, waters, soil), take to an authorized waste collection point.

Package

Take full package to the disposal point. Destroy empty containers (like pressurized containers).

Waste code:

Content of the package:

16 05 04 – gases in containers (including halons) that contain dangerous substances

Packaging waste:

15 01 10* – Packages that contain residues of dangerous substances or packages contaminated by dangerous substances

15 01 02 – Plastic packages

Disposal should be carried out in accordance with local and national legislation.

SECTION 14: Transport information

Legal basis: (Journal of Laws of 2011, No. 227, item 1367)
Act of 19 August 2011 on transport of dangerous goods

Information about transport	14.1. UN number	14.2. UN proper shipping	14.3. Transport hazard	14.4. Packing group	14.5. Environmental

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	(UN number)	name	class(es)		hazards
Land transport ADR	AEROSOLS, flammable (contains: propane, butane, isobutane)	1950	Class: 2 Stickers: 2.1	Not applicable	No
Maritime transport IMDG	AEROSOLS, flammable (contains: propane, butane, isobutane)	1950	Class: 2 Stickers: 2.1	Not applicable	No
Inland waterways transport ADN/ADNR	AEROSOLS, flammable (contains: propane, butane, isobutane)	1950	Class: 2 Stickers: 2.1	Not applicable	No

14.6. Special precautions for user

Shipments should not be thrown or subjected to impact.

14.7. Transport in bulk according to Annex II of MARPOL^[5] and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

1. Regulation (EC) No. 1907/2006 of the European Parliament and 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.

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

3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

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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.

4. Act on 20 March 2015 amending the act on chemical substances and their mixtures (Journal of Laws of 2015, item 675, as amended).
5. Announcement of the Speaker of the Sejm of the Republic of Poland of 6 June 2019 regarding the publication of a uniform text of the act on chemical substances and their mixtures (Journal of Laws of 2019, item 1225).
6. Ordinance of the Minister of Family, Labor and Social Policy of 12 June 2018 on the highest allowable concentrations and intensities of factors harmful to health in the work environment.
7. Ordinance of the Minister of Labor and Social Policy of 4 August 2011 amending the ordinance on general provisions concerning occupational health and safety.
8. Announcement of the Speaker of the Sejm of the Republic of Poland of 1 February 2019 regarding the publication of a uniform text of the act on the carriage of dangerous goods (Journal of Laws of 2019, item 382).
9. Government Declaration of 18 February 2019 on the entry into force of amendments to Annexes A and B to the European Agreement related to the international carriage of dangerous goods by road (ADR), prepared in Geneva on 30 September 1957 (Journal of Laws of 2019, item 769).
10. Act of 14 December 2012 on waste, as amended (Journal of Laws of 2013, item 21).
11. Act of 13 June 2013 on management of packages and packaging waste, as amended (Journal of Laws of 2013, item 888).
12. Ordinance of the Minister of Climate of 2 January 2020 on waste catalogue (Journal of Laws of 2020, item 10).
13. Ordinance of the Minister of Entrepreneurship and Technology of 10 May 2019 repealing the Ordinance on the essential requirements for personal protective equipment (Journal of Laws of 2019, item 966).
14. Ordinance of the Minister of Health of 2 February 2011 concerning tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2011, No. 33, item 166).
15. Directive (EU) No. 2018/851 of the European Parliament and the Council of 30 May 2018 amending the Directive No. 2008/98/EC on waste.
16. Directive (EU) No. 2018/852 of the European Parliament and the Council of 30 May 2018 amending the Directive No. 94/62/EC on packages and packaging waste.
17. Act of 20 July 2017 – Water Law (Journal of Laws of 2017, item 1566).

15.2. Chemical safety assessment

Chemical safety evaluation has been conducted for ethanol.

SECTION 16: Other information

Explanation of symbols used in the text

This Safety Data Sheet has been prepared on the basis of the current state of our knowledge and experience and on the basis of safety data sheets for substances delivered by our Suppliers.

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All information provided in this Safety Data Sheet constitutes a guide for safe handling of the product during use, transport, storage and procedures in the event of unintentional release of fire.

This information should not be considered as a warranty or a specification of the product and it cannot be the basis for any legal liability. It does not guarantee properties of the product.

H222 Extremely flammable aerosol.

H229 Pressurized container: Heating may cause an explosion.

H319 Causes serious eye irritation.

P101 If medical advice is needed, show container or label.

P102 Keep out of reach of children.

P211 Do not spray on an open flame or other ignition source.

P260 Do not breathe vapors / spray.

P280 Wear eye protection.

P305+P351+P338 IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and if they can be easily removed.

H225- Highly flammable liquid and vapor.

Aquatic Acute 1: H400 – Very toxic to aquatic organisms.

Aquatic Chronic 1: H410 – Very toxic to aquatic life with long lasting effects

Eye Dam. 1: H318 – Causes serious eye damage

H220- Extremely flammable gas.

Eye Irrit. - Irritating to eyes.

Flam. Aerosol- flammable aerosol

STOT SE – Toxicity to target organs – single exposure. STOT – single exposure.

Flam. Gas 1- extremely flammable gas, cat. 1

Flam. Liq.2- flammable liquid, cat. 2

16.2. Date of the latest revision of the SDS

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