

CLEARCOAT VHS RC 08

Date of issue: 30.04.2018
Version: 2.0

Date of update: 07.11.2018

Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 – REACH and 2015/830 of 28.05.2015

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

1.1. Product identifier Clearcoat VHS RC 08

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Clearcoat. For Professional use in Car Refinish

Advices against uses: not specified

1.3. Data of the supplier Safety Data Sheet

Manufacturer: GRUPA EXLAK
44-153 Sośnicowice
ul. Kozielska 14
Tel./fax: (+48) 32 238-41-81

E-mail address of the person responsible for the Safety Data Sheet: grupa.exlak@interia.pl

1.4 Emergency telephone number: 112 (emergency telephone number), 998 (fire brigade), 999 (emergency medical service); (+48) 32 238-41-81 (from 8.00 to 16.00)

SECTION 2: Hazard identification**2.1 Classification of the substance or mixture**

Classification 1272/2008:

Flam. Liq. 3; H226
STOT SE 3; H336
Aquatic Chronic 3; H412

Hazard to human health

May cause drowsiness or dizziness.

Environmental hazards

Harmful to aquatic life with long lasting effects.

Physical/chemical hazards

Flammable liquid and vapour.

2.2 Label elements:**Contains:**

n-butyl acetate (CAS: 123-86-4)
Methyl n-amyl ketone (CAS: 110-43-0)

Pictogram(s):

Signal word: **Warning**

Hazard statements:

H226 – Flammable liquid and vapour.
H336 – May cause drowsiness or dizziness.
H412 – Harmful to aquatic life with long lasting effects.

EUH066 – Repeated exposure may cause skin dryness or cracking

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SECTION 2: Hazard identification (continued)

Precautionary statements:

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

P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves / protective clothing / eye protection / face protection.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 – Call a POISON CENTER/doctor if you feel unwell.

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards:

The product does not contain substances that meet the criteria of PBT or vPvB in accordance with Annex XIII of the REACH Regulation.

SECTION 3: Composition / information on ingredients

3.1 Substances:

Not applicable.

3.2. Mixtures

Hazardous ingredients:

Substance name	Content %	CLP classification	
		Hazard class and category codes	Phrases codes indicating type of hazard
n-butyl acetate* CAS: 123-86-4 WE: 204-658-1 Index no: 607-025-00-1 REACH no: 01-2119485493-29-XXXX	20 – 35	Flam. Liq. 3 STOT SE 3	H226 H336
Methyl n-amyl ketone * CAS: 110-43-0 WE: 203-767-1 Index no: 606-024-00-3 REACH no: 01-2119902391-49-XXXX	10 – 20	Flam. Liq. 3 Acute Tox. 4 STOT SE 3	H226 H332 H302 H336
Hydrocarbons, C9, aromatics CAS: - WE: 918-668-5 Index no: - REACH no: 01-2119455851-35-XXXX	1 – 5	Flam. Liq. 3 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H226 H304 H335 H336 H411

Full text of H phrases in section 16

* substances with a specific NDS value

SECTION 4: First aid measures

4.1 Description of first aid measures

IF ON SKIN:

Wash contaminated skin with soap and water, rinse with water. If skin irritation or a rash occurs: contact a doctor.

IF IN EYES:

Rinse with plenty of water for about 15 minutes, holding the eyelids wide open. Avoid strong stream of water - risk of cornea damage, contact a doctor.

IF INHALED:

In case of dizziness or nausea remove person to fresh air, call a doctor if there is no rapid improvement.

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SECTION 4: First aid measures (continued)**IF SWALLOWED:**

Do NOT induce vomiting. Get immediate medical advice / attention. Do not give anything by mouth to an unconscious person.

4.2 The most important symptoms and effects, both acute and delayed:

Contact with skin: possible irritation, redness in the case of repeated contact.

Contact with eyes: possible irritation in the case of direct contact.

Respiratory system: irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system

Gastrointestinal tract: chemical irritation of oral cavity, throat and further parts of gastrointestinal tract.

4.3 Indications of any immediate medical attention and special treatment needed:

The decision on how to proceed take the doctor after examination of injured.

SECTION 5: Fire fighting measures**5.1 Extinguishing media:**

Appropriate extinguishing media: alcohol-resistant foam or dry powder (A,B,C), carbon dioxide (CO₂ type extinguisher), sand or soil, water fog. Use suitable fire extinguishing methods depending on the conditions.

Inappropriate extinguishing media: Strong stream of water.

5.2 Special hazards arising from the substance or mixture:

Flammable liquid and vapour. During a fire, high temperatures can cause release of toxic decomposition products which contain inter alia: carbon oxides. Vapours are able to form explosive mixtures with air. Heavier than air they accumulate in depressions or in lower parts of the room – can cause the phenomenon of flashback.

5.3 Advice for firefighters:

Containers situated in zone of fire cool down by spraying water, if possible, remove from the danger zone. In case of fire in a closed room wear protective clothing and self-contained breathing apparatus. Do not allow to get through the extinguishing water to surface water, groundwater and sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For persons not being the members of aid giving staff: inform the appropriate service. Remove from the danger zone people not involved in the liquidation of accident. Remove all possible sources of ignition.

For persons giving aid: Ensure proper ventilation, use protective gloves, do not breathe vapours.

6.2 Environmental precautions:

Prevent from spreading and leakage into sewage system and water reservoir, inform local authorities if it is impossible to provide protection.

6.3 Methods and materials for containment and cleaning up:

Prevent from spreading and remove by gathering on absorbent material (sand, sawdust, diatomaceous soil, universal absorbent), contaminated material put in properly labelled containers for disposal in accordance with applicable regulations.

6.4 Reference to other sections

Disposal considerations – see section 13 of the Safety Data Sheet.

Personal protection measures – see section 8 of the Safety Data Sheet.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only in well ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling. Avoid breathing vapours. Do not allow to exceed the NDS value in the workplace for the product components. Avoid sources of ignition, heat, hot surfaces and open flames. Apply measures against electrostatic charges – appropriate neutralization and protective earthing during e.g. transferring contents of the containers. It is recommended to wear anti-static clothing and footwear during handling the product. Floor of the room where product is stored or used should be made of electrically conductive materials. Make sure if the electric lighting and wiring are working properly and do not constitute a potential source of ignition. Do not use cutting tools that cause sparks. Work in accordance with the principles of health and safety: do not eat and drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool (storage temperature 5°C - 30°C), dry, well-ventilated place and properly labelled, tightly closed original container. Avoid direct sunlight and sources of heat, hot surfaces and open flames. After opening close tightly containers and set upright to prevent leakage of the product. Do not store near oxidizing agents, strongly alkaline, strongly acidic products and combustible materials.

7.3 Special end use(s):

clearcoat

SECTION 8: Exposure control/personal protection

8.1 Control parameters:

Standards of exposure for occupational hazards in accordance with the Ordinance of the Minister of Family, Labour and Social Policy *regarding the maximum permissible concentrations and intensities of harmful factors to health in the work environment* dated 12 June 2018 (Journal of Laws 2018, item 1286 with later changes).

Components, for which exposure standards are in force

Name and CAS number of chemical substance	The highest acceptable concentration (mg/m ³) depending on the time of exposure during the work shift			Number of fibers (per cm ³)	Comments: Labeling of substances with notation „skin”
	NDS	NDSch	NDSP		
n-butyl acetate [CAS: 123-86-4]	240	720	-	-	-
Methyl n-amyl ketone [CAS: 110-43-0]	238	475	-	-	skin

n-butyl acetate:

DNEL for workers, prolonged exposure through the skin: 7mg/kg mc/day
 DNEL for workers, prolonged exposure through inhalation 48mg/m³
 DNEL for consumer, prolonged exposure through the skin: 3,4mg/kg mc/day
 DNEL for consumer, prolonged exposure through inhalation: 12mg/m³
 DNEL for consumer, prolonged exposure if swallowed: 3,4mg/kg mc/day
 PNEC freshwater: 0,18mg/l
 PNEC sea water: 0,018mg/l
 PNEC periodic release: 0,36mg/l
 PNEC sewage treatment plant: 35,6mg/l
 PNEC freshwater sediment: 0,981mg/kg
 PNEC sea waters sediment: 0,0981mg/l
 PNEC soil: 0,0903mg/kg

Methyl n-amyl ketone

DNEL for workers, short-term inhalation exposure (systemic effects): 1516mg/m³
 DNEL for workers, long-term exposure through the skin (systemic effects): 54,27mg/kg
 DNEL for workers, long-term inhalation exposure (systemic effects): 394,25mg/m³

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SECTION 8: Exposure control/personal protection (continued)

DNEL for consumer, long-term exposure through the skin (systemic effects): 23,32mg/kg
 DNEL for consumer, long-term inhalation exposure (systemic effects): 84,31mg/m³
 DNEL for consumer, long-term exposure after ingestion (systemic effects): 23,32mg/kg
 PNEC freshwater: 0,0982mg/l
 PNEC sea water: 0,00982mg/l
 PNEC periodic release: 0,982mg/l
 PNEC freshwater sediment: 1,89mg/kg
 PNEC sea water sediment: 0,189mg/l
 PNEC soil: 0,321mg/kg
 PNEC sewage treatment plant: 12,5mg/l

Hydrocarbons, C9, aromatics:

DNEL for workers, prolonged exposure through the skin (systemic effects): 25mg/kg mc/day
 DNEL for workers, prolonged exposure through inhalation (systemic effects): 150mg/m³
 DNEL for consumer, prolonged exposure through the skin (systemic effects): 11mg/kg/day
 DNEL for consumer, prolonged exposure through inhalation (systemic effects): 32mg/m³
 DNEL for consumer, prolonged exposure if swallowed (systemic effects): 11mg/kg/day

8.2. Exposure control

Appropriate technical control measures: use of general ventilation of the room is recommended.

Individual protection measures, such as personal protective equipment:



Eye or face protection:

Wear protective glasses or protective mask (in accordance with EN 166).

Skin protection:

Hand protection:

Use protective gloves resistant to chemicals, made of Viton, 0,7 mm thick, penetration time > 480 min or nitrile rubber, 0,4 mm thick, penetration time > 30 min in accordance to EN-PN 374:2005.

The material from which the gloves are made:

Choice of suitable gloves depends not only on the material, but also on the brand and quality that depend on manufacturer. Resistance of the material from which gloves are made can be determined after testing. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

Others:

Wear protective clothing working - wash regularly.

Respiratory system protection:

Avoid breathing vapours. In case of exceeding the NDS value in the workplace use personal respiratory system protection – mask or half mask with filter with A type vapour absorber or universal (class 1,2 or 3) in accordance with EN 141.

Thermal hazards:

Not applicable.

Control of environmental exposure

Do not allow to spread in the environment and leakage to sewage system and watercourses.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Solvent-ester
Odour threshold	0,2 ppm (MAK)
pH	Not applicable
Melting point/range	Not specified
Boiling point/range	Not specified
Flash point	26°C
Ignition temperature	Not specified
Evaporation rate	Not specified
Flammability (solid, gas)	Not applicable
Bottom explosive limit	Not specified
Top explosive limit	Not specified
Vapour pressure (20°C)	2,8 mbar (MAK)
Relative vapour density	4,0 (n-butyl acetate)
Density	About 1,0 g/cm ³ (20°C)
Solubility	Poor solubility in water
N-octanol / water division ratio	1,85 (n-butyl acetate)
Autoignition point	> 200 °C
Breakdown point	Not specified
Viscosity	Not specified
Explosive properties	Not applicable
Oxidizing properties	Not applicable

9.2 Other information:

No additional test results.

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SECTION 10: Stability and reactivity

10.1 Reactivity:

Unknown.

10.2 Chemical stability:

Product remains stable under normal use, storage and transport conditions.

10.3 Possibility of hazardous reactions:

None.

10.4. Conditions to avoid

Avoid high temperature, direct sunlight, hot surfaces and open flames. Protect against moisture - contact with water increases pressure in a closed container.

10.5 Incompatible materials:

Strong acids, strong alkalis, strong oxidizing agents. Combustible materials.

10.6 Hazardous decomposition products:

As a result of high temperatures toxic gases are generated – carbon oxides, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

a) acute toxicity: based on the available data, the classification criteria are not met.

ATE mix orally: >2500mg/kg

ATE mix inhalation (vapour): >44mg/l

ATE mix inhalation (mist): >6mg/l

n-butyl acetate:

LD50 (rat, male; orally):

10760mg/kg

LC50 (rat, male, female; inhalation):

23,4mg/l/h (In vivo, aerosol)

LD50 (rabbit; skin):

>14000mg/kg

Methyl n-amyl ketone

LD50 (rat; orally)

1600 mg/kg

LD50 (rat; inhalation)

>16,7mg/l, 4h (vapour)

LD50 (rat, skin)

>2001mg/kg

Hydrocarbons, C9, aromatics:

LD50 (rat; orally):

3492mg/kg

LC50 (rat; inhalation):

>6193mg/m³/4h

LD50 (rabbit; skin):

>3160mg/kg

b) corrosive effect / irritation of skin: based on the available data, the classification criteria are not met.

c) serious eye damage/ eye irritating effect: based on the available data, the classification criteria are not met.

d) sensitizing effect respiratory system or skin: based on the available data, the classification criteria are not met.

e) mutagenic effect on reproductive cells: based on the available data, the classification criteria are not met.

f) cancerogenity: based on the available data, the classification criteria are not met.

g) harmful effect on reproduction: based on the available data, the classification criteria are not met.

h) toxicity for specific organs – single exposure: **May cause drowsiness or dizziness.**

i) toxicity for specific organs – repeated exposure: based on the available data, the classification criteria are not met.

j) aspiration hazard: based on the available data, the classification criteria are not met.

Information on likely routes of exposure:

Contact with skin: possible irritation, redness in the case of repeated contact.

Contact with eyes: possible irritation in the case of direct contact.

Respiratory system: irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system

Gastrointestinal tract: chemical irritation of oral cavity, throat and further parts of gastrointestinal tract.

Delayed and immediate and chronic effects from short-and long-term exposure:

No data.

The effects of the interaction:

No data.

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SECTION 12: Ecological information

12.1. Toxicity

Detailed studies of the environmental effects of the mixture were not carried out. **Harmful to aquatic life with long lasting effects.** Do not allow to leakage to ground water sewage system and watercourses.

n-butyl acetate:

LC50 – fish (<i>Pimephales promelas</i>)	18mg/l, 96h
EC50 – invertebrates (<i>Daphnia</i> sp.)	44mg/l, 48h
NOEC – algae (<i>Desmodesmus subspicatus</i>)	200mg/l, 72h
ErC50 – algae (<i>Desmodesmus subspicatus</i>)	648mg/l, 72h
IC50 – activated sludge (<i>Tetrahymena pyriformis</i>)	356mg/l, 40h

Methyl n-amyl ketone:

LC50 – fish (<i>Pimephales promelas</i>)	131mg/l, 96h
ErC50 – algae (<i>Selenastrum capricornutum</i>)	98,2mg/l, 72h

Hydrocarbons, C9, aromatics:

LL50 – fish (<i>Oncorhynchus mykiss</i>)	9,2mg/l, 96h
EL50 – invertebrate (<i>Daphnia magna</i>)	3,2mg/l, 48h
ErL50 – algae (<i>Pseudokirchneriella subspicatus</i>)	2,9mg/l, 72h
NOELR – algae (<i>Pseudokirchneriella subspicatus</i>)	1mg/l, 72h

12.2. Persistence and degradability

n-butyl acetate:

Product undergoes slow hydrolysis in water.

Half-time hydrolysis: 78days at pH: 8 and 2 years at pH: 7 (in 25°C).

Substance is easy biodegradable: 80% within 5 days (83% within 28days).

Methyl n-amyl ketone:

69% within 28 days, easily biodegradable

BZT5: 1770mg O₂/g

ChZT: 2420mg O₂/g

Hydrocarbons, C9, aromatics:

Product undergoes rapid biodegradation.

Hydrolysis: conversion as a result of hydrolysis should not be significant

Photolysis: conversion as a result of photolysis should not be significant.

Atmospheric oxidation: rapidly degraded in air.

12.3. Bio accumulative potential:

n-butyl acetate: log Ko/w: 2,3 (BCF expected: 15,3) – substance is not expected to bio accumulate.

Methyl n-amyl ketone: log Po/w: 1,98 (Po/w: 95,4)

12.4. Mobility in soil

n-butyl acetate: Ko/c: 1,27 (estimated value)

Hydrocarbons, C9, aromatics: easily volatile, evaporates quickly.

12.5. Results of PBT and vPvB assessment

The product does not contain substances that meet the PBT or PVB criteria.

12.6. Other adverse effects:

No data.

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SECTION 13: Disposal considerations**13.1. Waste treatment methods:**

The residue store in original containers. Waste disposal should be done by specialized companies. Dispose in accordance with current regulations.

Empty containers should be disposed or recycled in accordance with current regulations.

Recommended waste codes: in accordance with Regulation of the Minister of Environment of 9 September 2014 regarding to waste catalogue (Journal of Laws position 1923).

Community-based regulations:

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 2008/98 / EC of 19 November 2008 on waste and repealing certain directives.

SECTION 14: Transport information**14.1. UN number (ONZ number)**

ADR/RID/IMDG/IATA: 1263

14.2. UN proper shipping name

ADR/RID: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

IMDG: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

IATA: Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

14.3. Transport hazard class(es):

ADR/RID/IMDG/IATA: 3

Label: 3

**14.4. Packaging group**

ADR/RID/IMDG/IATA: III

14.5. Environmental hazards

ADR/RID/IMDG/IATA: NIE

14.6 Special precautions for users

Always transport in closed containers that are upright, labelled and secured.

ADR:

Specific regulations: 163, 640E, 650

Limited quantities LQ: 5L

Hazard identification number: 30

Transport category: 3

Code of restriction of carriage through tunnels: D/E

IMDG:

Specific regulations: 163, 223, 944, 955

Limited quantities LQ: 5L

EmS: F-E, S-E

IATA:

IATA LTD QTY Pkg Inst: Y344

IATA LTD QTY Max Qty per Pkg: 10L

IATA Pkg Inst: 355

Cargo Air Packing Inst: 366

Cargo Air Max: 30L

Special Prov.: A3, A72, A192

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SECTION 14: Transport information (continued)**14.7 Transport in bulk according to Annex II of MARPOL 73/78 Convention 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 of the Council of 18 December 2006 on the Registration, Evaluation, Authorization, Restriction of Chemicals (REACH) with later changes.
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, Authorisation and Restriction of Chemicals (REACH).
3. Corrigendum to 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).
4. Regulation of the European Parliament and of the Council of 16 December 2008 No. 1272/2008 (CLP) with later changes.
5. The Act of February 25, 2011 on chemical substances and mixtures thereof (Journal of Laws No. 63, item 322) with later changes.
6. Announcement of the Speaker of the Sejm of the Republic of Poland of 28 July 2015 regarding the publication of a single text of the Act on Chemical Substances and Their Mixtures (Journal of Laws 2015 item 1203).
7. Regulation of the Minister of Health of 10 October 2013 amending the regulation on the category of dangerous substances and dangerous mixtures, the packaging of which is fitted with closures making it difficult for children to open and tactile warning of danger (Journal of Laws of 2013 No. 0 item 1225).
8. The Act of 14 December 2012 on waste (Journal of Laws of 2013 No. 0, item 21).
9. The Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888).
10. Regulation of the Minister of the Environment of 9 December 2014 regarding the waste catalogue (Journal of Laws, item 1923).
11. Directive of the European Parliament and of the Council 2008/98 / EC of November 19, 2008 on waste and repealing certain directives.
12. Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws No. 227, item 1367) with later changes.
13. Government Statement of March 23, 2015 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the international carriage of dangerous goods by road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 2015, item 882).
14. Regulation of the Minister of Labour and Social Policy of June 6, 2014 on the highest allowable concentrations and intensities of agents harmful to health in the work environment (Journal of Laws, item 817) with later changes.
15. Regulation of the Minister of Health of December 30, 2004 on health and safety at work related to the presence of chemical agents at work (Journal of Laws from 2005 No. 11, item 86) with later changes.
16. Decree of the Minister of Health of 9 September 2016 on the publication of a uniform text of the Regulation of the Minister of Health on occupational health and safety related to the presence of chemical agents at work (Journal of Laws of 2016, item 1488).
17. Regulation of the Minister of the Environment of 9 December 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, item 2141).

15.2 Chemical safety assessment:

A chemical safety assessment has been carried out for substances that are components of the mixture:

- n-butyl acetate
- Hydrocarbons, C9, aromatics
- Methyl n-amyl ketone

Annex XIII of Reg. REACH – Criteria for the identification of persistent, bio accumulative and toxic (PBT) substances and very persistent and very bio accumulative substances (vPvB): not applicable.

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SECTION 15: Regulatory information (continued)

Annex XIV of Reg. REACH – List of substances subject to the authorization procedure: not applicable.

Substances of SVHC - Candidate list of substances posing a very big threat, awaiting authorization: not applicable

Annex XVII of Reg. REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: not applicable

SECTION 16: Other information**H phrases:**

- H226 – Flammable liquid and vapour.
- H302 – Harmful if swallowed.
- H304 – May be fatal if swallowed and enters airways.
- H332 – Harmful if inhaled.
- H335 – May cause respiratory irritation.
- H336 – May cause drowsiness or dizziness.
- H411 – Toxic to aquatic life with long lasting effects.
- H412 – Harmful to aquatic life with long lasting effects.

Explanation of the abbreviations, acronyms and symbols used in the Safety Data Sheet:

- Flam. Liq.3 - Liquid, flammable substances, category 3
- Acute Tox.4 – Acute toxicity, category 4
- Asp. Tox. 1 – Aspiration hazard, category 1
- STOT SE 3 – Toxic effect on target organs – single exposure, category 3
- Aquatic Chronic 2 – Hazardous to the aquatic environment - chronic hazard, category 2
- Aquatic Chronic 3 – Hazardous to the aquatic environment - chronic hazard, category 3
- NDS – Maximum permissible concentration of substances in the workplace
- NDSP – Maximum permissible ceiling concentration
- NDSch – Maximum permissible instantaneous concentration
- DNEL – Derived no-effect level
- PNEC – Predicted no-effect concentration in environment
- ATE – estimated acute toxicity
- LC50 – (eng. **lethal concentration**) – median lethal concentration, statically determined concentration of substance, that after exposure can be expected, that during the exposure or during a specified, contractual period after exposure 50 % of organisms will die.
- LD50 – (eng. **lethal dose**) – median lethal dose, statistically determined amount of single dose of substance, that after dosing can be expected death of 50 % exposed test organisms.
- EC50 – (eng. **effective concentration**) – median effective concentration, statistically calculated concentration, which induces a certain effect in the environmental medium in 50% of experimental organisms cases under specified conditions
- IC50 – (eng. **inhibitory concentration**) – median inhibitory concentration inhibiting 50% biological and biochemical functions of organisms
- NOEC (eng. **no observed effects concentration**) – the highest concentration, for which there is no significant increase in frequency or intensification of effects of a substance of the test organisms as compared to the control.
- BCF – bio concentration factor
- BZT – biological oxygen demand
- ChZT – chemical oxygen demand
- vPvB – substance very persistent and very bio accumulative
- PBT – persistent, bio accumulative and toxic substances
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail
- IMDG – International Maritime Dangerous Goods Code
- IATA – International Air Transport Association airport code issued by the International Air Transport Association

Basis for classification: Classification was made by calculation method

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SECTION 16: Other information (continued)**Training:**

Before starting handling the product, workers must undergo obligatorily occupational health and safety training because of presence of chemicals in the workplace. Perform, document and familiarize employees with the results of risk assessment in the workplace due to the presence of chemical agents.

SOURCE MATERIALS

Annex I to Regulation (EU) 2015/830 of 28 May 2015.
Laws set forth in section 15 of the Safety Data Sheet
Information Bureau for Chemical Substances.

Information included in this safety data sheet relate only to the product specified in the title. The data contained in the SDS should be considered only as a guidance for safe use of the product. Since the conditions of storage, handling and use are beyond our control, can not constitute a guarantee in the legal sense. In each case, you must comply with the laws and rights of third parties. SDS does not constitute the estimation of hazards in the workplace. Product should not be used for purposes other than those specified in section 1 without previous consultation with **GRUPA EXLAK** company.

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