




LAKIER STRUKTURALNY CZARNY

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

- 1.1 Product identifier:** LAKIER STRUKTURALNY CZARNY
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Structured varnish for industrial and consumer applications.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
Agencja Handlowa "BOLL" Wojciech Dalewski Spółka Jawna
ul. Chemiczna 3
65-713 Zielona Góra - Polska
Phone.: 68 451 99 99 - Fax: 68 451 99 00
technolog@boll.pl
- 1.4 Emergency telephone number:**

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Irrit. 2: Eye irritation, Category 2, H319
Flam. Liq. 2: Flammable liquids, Category 2, H225
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1: Sensitisation, skin, Category 1, H317
STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger
- 
- Hazard statements:**
H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure (Oral)
H412 - Harmful to aquatic life with long lasting effects
- Precautionary statements:**
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P243: Take action to prevent static discharges
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P403+P235: Store in a well-ventilated place. Keep cool
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively
- Supplementary information:**
EUH066: Repeated exposure may cause skin dryness or cracking
EUH208: Contains Isobutyl methacrylate. May produce an allergic reaction
- 2.3 Other hazards:**
Product fails to meet PBT/vPvB criteria

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of organic substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | | Concentration |
|---|---|--|-----------------------|
| CAS: 67-64-1 EC: 200-662-2 Index: 606-001-00-8 REACH: 01-2119471330-49-XXXX | Acetone⁽¹⁾ ATP CLP00 | | 10 - <25 % |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | |
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-38-XXXX | Xylene⁽¹⁾ Self-classified | | 10 - <25 % |
| | Regulation 1272/2008 | Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger | |
| CAS: 78-93-3 EC: 201-159-0 Index: 606-002-00-3 REACH: 01-2119457290-43-XXXX | 2-butanone⁽¹⁾ ATP CLP00 | | 10 - <25 % |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | |
| CAS: Non-applicable EC: 921-024-6 Index: Non-applicable REACH: 01-2119475514-35-XXXX | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane⁽¹⁾ Self-classified | | 10 - <25 % |
| | Regulation 1272/2008 | Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger | |
| CAS: 97-86-9 EC: 202-613-0 Index: 607-113-00-X REACH: 01-2119488331-38-XXXX | Isobutyl methacrylate⁽¹⁾ ATP CLP00 | | 2,5 - <10 % |
| | Regulation 1272/2008 | Aquatic Acute 1: H400; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning | |
| CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX | N-butyl acetate⁽¹⁾ ATP CLP00 | | 2,5 - <10 % |
| | Regulation 1272/2008 | Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning | |
| CAS: 107-98-2 EC: 203-539-1 Index: 603-064-00-3 REACH: 01-2119457435-35-XXXX | 1-methoxy-2-propanol⁽²⁾ ATP ATP01 | | 0,1 - <1 % |
| | Regulation 1272/2008 | Flam. Liq. 3: H226; STOT SE 3: H336 - Warning | |

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

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SECTION 4: FIRST AID MEASURES (continued)

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

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SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 10 °C
Maximum Temp.: 20 °C
Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

| Identification | | Environmental limits | | |
|---|--|----------------------|---------|------------------------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | | IOELV (8h) | 500 ppm | 1210 mg/m ³ |
| | | IOELV (STEL) | | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | | IOELV (8h) | 50 ppm | 221 mg/m ³ |
| | | IOELV (STEL) | 100 ppm | 442 mg/m ³ |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | | IOELV (8h) | 200 ppm | 600 mg/m ³ |
| | | IOELV (STEL) | 300 ppm | 900 mg/m ³ |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | | IOELV (8h) | 100 ppm | 375 mg/m ³ |
| | | IOELV (STEL) | 150 ppm | 563 mg/m ³ |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------------|-------------------------------|-------------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| Acetone CAS: 67-64-1 EC: 200-662-2 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 171 - 201 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | 2405 - 2435 mg/m ³ | 1195 - 1225 mg/m ³ | Non-applicable |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 165 - 195 mg/kg | Non-applicable |
| | Inhalation | 274 - 304 mg/m ³ | 274 - 304 mg/m ³ | 62 - 92 mg/m ³ | Non-applicable |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 1146 - 1176 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 585 - 615 mg/m ³ | Non-applicable |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------------|---------------------------------|---------------------------------|-----------------------------|
| | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Non-applicable EC: 921-024-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 758 - 788 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2020 - 2050 mg/m ³ | Non-applicable |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | -10 - 20 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 400,9 - 430,9 mg/m ³ | 394 - 424 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | 945 - 975 mg/m ³ | 945 - 975 mg/m ³ | 465 - 495 mg/m ³ | 465 - 495 mg/m ³ |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 35,6 - 65,6 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | 538,5 - 568,5 mg/m ³ | 354 - 384 mg/m ³ | Non-applicable |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| | | Systemic | Local | Systemic | Local |
| Acetone CAS: 67-64-1 EC: 200-662-2 | Oral | Non-applicable | Non-applicable | 47 - 77 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 47 - 77 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 185 - 215 mg/m ³ | Non-applicable |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | -13,4 - 16,6 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 93 - 123 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | -0,2 - 29,8 mg/m ³ | Non-applicable |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | Oral | Non-applicable | Non-applicable | 16 - 46 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 397 - 427 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 91 - 121 mg/m ³ | Non-applicable |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Non-applicable EC: 921-024-6 | Oral | Non-applicable | Non-applicable | 684 - 714 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 684 - 714 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 593 - 623 mg/m ³ | Non-applicable |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | -12 - 18 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 51,5 - 81,5 mg/m ³ | 351,4 - 381,4 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | 844,7 - 874,7 mg/m ³ | 844,7 - 874,7 mg/m ³ | 87,34 - 117,34 mg/m ³ | 87,34 - 117,34 mg/m ³ |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | Oral | Non-applicable | Non-applicable | -11,7 - 18,3 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 3,1 - 33,1 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 28,9 - 58,9 mg/m ³ | Non-applicable |

PNEC:

| Identification | | | | | |
|--|--------------|-------------------|-------------------------|----------------------|--|
| Acetone CAS: 67-64-1 EC: 200-662-2 | STP | 85 - 115 mg/L | Fresh water | -4,4 - 25,6 mg/L | |
| | Soil | 14,5 - 44,5 mg/kg | Marine water | -13,94 - 16,06 mg/L | |
| | Intermittent | 6 - 36 mg/L | Sediment (Fresh water) | 15,4 - 45,4 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | -11,96 - 18,04 mg/kg | |

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LAKIER STRUKTURALNY CZARNY

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|--|--------------|----------------------|-------------------------|-----------------------|
| Xylene CAS: 1330-20-7 EC: 215-535-7 | STP | -8,42 - 21,58 mg/L | Fresh water | -14,67 - 15,33 mg/L |
| | Soil | -12,69 - 17,31 mg/kg | Marine water | -14,67 - 15,33 mg/L |
| | Intermittent | -14,67 - 15,33 mg/L | Sediment (Fresh water) | -2,54 - 27,46 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | -2,54 - 27,46 mg/kg |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | STP | 694 - 724 mg/L | Fresh water | 40,8 - 70,8 mg/L |
| | Soil | 7,5 - 37,5 mg/kg | Marine water | 40,8 - 70,8 mg/L |
| | Intermittent | 40,8 - 70,8 mg/L | Sediment (Fresh water) | 269,74 - 299,74 mg/kg |
| | Oral | 985 - 1015 g/kg | Sediment (Marine water) | 269,7 - 299,7 mg/kg |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | STP | -5 - 25 mg/L | Fresh water | -14,79 - 15,21 mg/L |
| | Soil | Non-applicable | Marine water | -14,79 - 15,21 mg/L |
| | Intermittent | -14,79 - 15,21 mg/L | Sediment (Fresh water) | Non-applicable |
| | Oral | Non-applicable | Sediment (Marine water) | Non-applicable |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | STP | 20,6 - 50,6 mg/L | Fresh water | -14,82 - 15,18 mg/L |
| | Soil | -14,91 - 15,09 mg/kg | Marine water | -14,98 - 15,02 mg/L |
| | Intermittent | -14,64 - 15,36 mg/L | Sediment (Fresh water) | -14,02 - 15,98 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | -14,9 - 15,1 mg/kg |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | STP | 85 - 115 mg/L | Fresh water | -5 - 25 mg/L |
| | Soil | -9,51 - 20,49 mg/kg | Marine water | -14 - 16 mg/L |
| | Intermittent | 85 - 115 mg/L | Sediment (Fresh water) | 37,3 - 67,3 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | -9,8 - 20,2 mg/kg |



8.2 Exposure controls:

A.- General security and hygiene measures in the work place



As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|-----------------------------------|--|---------------------|--|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours |  CAT III | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|--|---|--|
|  Mandatory hand protection | NON-disposable chemical protective gloves |  CAT III | EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|-------------|---|---|---|
|  Mandatory face protection | Face shield |  CAT II | EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|--|---|---|
|  Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties |  CAT III | EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|--------------------------------|--|-------------------------------|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2002 |  Eyewash stations | DIN 12 899 ISO 3864-1:2002 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|-------------------------------------|
| V.O.C. (Supply): | 96,7 % weight |
| V.O.C. density at 20 °C: | 520,7 kg/m ³ (520,7 g/L) |
| Average carbon number: | 5,74 |
| Average molecular weight: | 91,5 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|---|
| Physical state at 20 °C: | Liquid |
| Appearance: | Fluid |
| Colour: |  Black |
| Odour: | Characteristic |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|------------------|
| Boiling point at atmospheric pressure: | 55 °C |
| Vapour pressure at 20 °C: | 24600 Pa |
| Vapour pressure at 50 °C: | Non-applicable * |
| Evaporation rate at 20 °C: | Non-applicable * |

Product description:

| | |
|-------------------------------|-----------------------|
| Density at 20 °C: | 880 kg/m ³ |
| Relative density at 20 °C: | 0,88 |
| Dynamic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 40 °C: | <20,5 cSt |
| Concentration: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

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LAKIER STRUKTURALNY CZARNY

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--|------------------|
| pH: | Non-applicable * |
| Vapour density at 20 °C: | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Solubility in water at 20 °C: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |

Flammability:

| | |
|----------------------------|------------------|
| Flash Point: | -17 °C |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | Non-applicable * |
| Lower flammability limit: | 0,8 % Volume |
| Upper flammability limit: | 13 % Volume |

Explosive:

| | |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

9.2 Other information:

| | |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Combustive materials | Combustible materials | Others |
|--------------------|----------------|----------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- CONTINUED ON NEXT PAGE -



LAKIER STRUKTURALNY CZARNY

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: Xylene (3); Czarny węgiel [amorficzny] (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|-----------------|----------------------|--------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | LD50 oral | 5800 mg/kg | Rat |
| | LD50 dermal | 7426 mg/kg | Rabbit |
| | LC50 inhalation | 76 mg/L (4 h) | Rat |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg (ATEi) | Rat |
| | LC50 inhalation | 11 mg/L (4 h) (ATEi) | |

- CONTINUED ON NEXT PAGE -



LAKIER STRUKTURALNY CZARNY

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| Identification | Acute toxicity | | Genus |
|---|-----------------|-----------------|--------|
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | LD50 oral | 4000 mg/kg | Rat |
| | LD50 dermal | 6400 mg/kg | Rabbit |
| | LC50 inhalation | 23,5 mg/L (4 h) | Rat |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Non-applicable EC: 921-024-6 | LD50 oral | 5840 mg/kg | Rat |
| | LD50 dermal | 2920 mg/kg | Rat |
| | LC50 inhalation | >20 mg/L (4 h) | |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | LD50 oral | 9600 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L (4 h) | |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | LD50 oral | 12789 mg/kg | Rat |
| | LD50 dermal | 14112 mg/kg | Rabbit |
| | LC50 inhalation | 23,4 mg/L (4 h) | Rat |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L | |

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

| Identification | Acute toxicity | | Species | Genus |
|---|----------------|-------------------|---------------------------|------------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 23.5 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Algae |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | LC50 | 13.5 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 3.4 mg/L (48 h) | Ceriodaphnia dubia | Crustacean |
| | EC50 | 10 mg/L (72 h) | Skeletonema costatum | Algae |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | LC50 | 3220 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 5091 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 4300 mg/L (168 h) | Scenedesmus quadricauda | Algae |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Non-applicable EC: 921-024-6 | LC50 | 5.1 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | Non-applicable | | |
| | EC50 | Non-applicable | | |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | LC50 | 20 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 23 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 0.29 mg/L (96 h) | Selenastrum capricornutum | Algae |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | LC50 | 62 mg/L (96 h) | Leuciscus idus | Fish |
| | EC50 | 73 mg/L (24 h) | Daphnia magna | Crustacean |
| | EC50 | 675 mg/L (72 h) | Scenedesmus subspicatus | Algae |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | LC50 | 20800 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 23300 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (168 h) | Selenastrum capricornutum | Algae |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|----------------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | 0.96 | % Biodegradable | 96 % |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 88 % |

- CONTINUED ON NEXT PAGE -



LAKIER STRUKTURALNY CZARNY

SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Degradability | | Biodegradability | |
|---|---------------|--------------------------|------------------|----------------|
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | BOD5 | 2.03 g O ₂ /g | Concentration | Non-applicable |
| | COD | 2.31 g O ₂ /g | Period | 20 days |
| | BOD5/COD | 0.88 | % Biodegradable | 89 % |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Non-applicable EC: 921-024-6 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 98 % |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 5 days |
| | BOD5/COD | 0.79 | % Biodegradable | 84 % |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|--|---------------------------|-------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | BCF | 1 |
| | Pow Log | -0.24 |
| | Potential | Low |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | BCF | 3 |
| | Pow Log | 0.29 |
| | Potential | Low |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | BCF | 26 |
| | Pow Log | 2.66 |
| | Potential | Low |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BCF | 4 |
| | Pow Log | 1.78 |
| | Potential | Low |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | BCF | 3 |
| | Pow Log | -0.44 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|--|-----------------------|----------------------|------------|-------------------------------|
| Acetone CAS: 67-64-1 EC: 200-662-2 | Koc | 1 | Henry | 2,93 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2,304E-2 N/m (25 °C) | Moist soil | Yes |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Koc | 202 | Henry | 524,86 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| 2-butanone CAS: 78-93-3 EC: 201-159-0 | Koc | 30 | Henry | 5,77 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2,396E-2 N/m (25 °C) | Moist soil | Yes |
| Isobutyl methacrylate CAS: 97-86-9 EC: 202-613-0 | Koc | 1480 | Henry | 52,69 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Koc | Non-applicable | Henry | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 2,478E-2 N/m (25 °C) | Moist soil | Non-applicable |

12.5 Results of PBT and vPvB assessment:

- CONTINUED ON NEXT PAGE -



LAKIER STRUKTURALNY CZARNY

SECTION 12: ECOLOGICAL INFORMATION (continued)

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 16 03 05* | organic wastes containing hazardous substances | Dangerous |

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT) /Aspiration Toxicity, HP6 Acute Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:



- 14.1 UN number:** UN1139
- 14.2 UN proper shipping name:** COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
- 14.3 Transport hazard class(es):** 3
- Labels:** 3
- 14.4 Packing group:** II
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
- Special regulations: Non-applicable
- Tunnel restriction code: D/E
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

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LAKIER STRUKTURALNY CZARNY

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN1139
14.2 UN proper shipping name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group: II
14.5 Environmental hazards: No
14.6 Special precautions for user
Special regulations: Non-applicable
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Non-applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2018:



- 14.1 UN number:** UN1139
14.2 UN proper shipping name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group: II
14.5 Environmental hazards: No
14.6 Special precautions for user
Physico-Chemical properties: see section 9
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------|-------------------------|-------------------------|
| P5c | | 5000 | 50000 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

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LAKIER STRUKTURALNY CZARNY

SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopie" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone. Product under the provisions of Article 9

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H225: Highly flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

H373: May cause damage to organs through prolonged or repeated exposure (Oral)

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

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LAKIER STRUKTURALNY CZARNY

SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Flam. Liq. 3: H226 - Flammable liquid and vapour
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1: H317 - May cause an allergic skin reaction
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral)
STOT SE 3: H335 - May cause respiratory irritation
STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

Flam. Liq. 2: Calculation method (2.6.4.3)
Skin Irrit. 2: Calculation method
Eye Irrit. 2: Calculation method
Skin Sens. 1: Calculation method
Aquatic Chronic 3: Calculation method
STOT RE 2: Calculation method

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol–water partition coefficient
Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -