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

1.1 Product identifier

Trade name: KLEIB KB Q Biorolna WHITE EMULSION PAINT

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

identified uses: Emulsion paint for painting livestock housing
Uses advised against: not specified

1.3 Details of the supplier of the safety data sheet

Supplier: KLEIB Sp. z o.o.
Address: Pikutkowo 43
87-880 Brześć Kujawski
tel. +48 54 233 82 83
e-mail: bogumil@kleib.pl

1.3 Emergency telephone numbers

112 (emergency line), 988 (Fire service) 999 (Ambulance)
Tel: +48 54 233 82 83 (during business hours) between 7 AM do 4 PM

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in keeping with Regulation 1999/45/EC:

N R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Classification in keeping with Regulation 1272/2008/EC:

Aquatic Acute 1 H400 Very toxic to aquatic life
Aquatic Chronic 1 H410 Very toxic to aquatic life with long-lasting effects

2.2 Label elements

Labeling in keeping with Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms and Signal words:
Signal Word(s): Caution

Product identifier:
none

Hazard statements
H410 Very toxic 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.
P273: Avoid release to the environment.
P501 Dispose of contents / container in accordance with local regulations.

2.3. Other hazards
There are insufficient data to include the product in PBT or vPvB in keeping with Annex XIII to REACH Regulation

SECTION 3: Composition/information on ingredients
3.1. Substances
not applicable

3.2. Mixtures – chemical properties
Permethrin (PN)
Concentration range: 0,055-0,066%
CAS: 52645-53-1
EC: 258-067-9
Index: 613-058-00-2
Rej: the substance is subject to the transient period regulations
Classification by 67/548 / EEC Xn R20/22; R43; N R 50/53
SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact
Wash skin contaminated with large amounts of soap and water and rinse thoroughly. Immediately remove any clothing contaminated with the product. Seek advice from a dermatologist when skin irritation occurs.

Eye contact
Remove contact lenses. Rinse the eyes with running water for several minutes. Avoid strong water jet as it may cause the risk of corneal damage. Seek medical attention if irritation persists.

Ingested
Do not induce vomiting. Rinse mouth with water. If unconscious, do not give anything by mouth without consulting a doctor. If any symptoms appear or persist, seek medical attention, show the label or packaging

Inhaled
Lead out / remove the victim from the affected area. Ensure access of fresh air, keep the exposed person warm and at rest. If any symptoms appear seek medical attention,

4.2. Most important symptoms and effects, both acute and delayed
Skin contact – may cause redness and dryness after long exposure, may cause skin irritation to susceptible individuals
Eye contact – may cause redness, tearing, burning and short irritation
Ingested – after swallowing large amounts of the product stomach ache, nausea and vomiting may occur

Inhaled – may cause irritation of upper respiratory system, dizziness

4.3. Indication of any immediate medical attention and special treatment needed
Decision on the rescue procedure is taken by a physician after a thorough examination of the injured person’s condition. Treat symptoms

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable: Water spray, carbon dioxide. The product is not flammable. Adjust extinguishing media to the materials in the given area
Incorrect: condensed streams of water – as they present the risk of spreading the fire

5.2. Special hazards arising from the substance or mixture
The combustion may produce harmful fumes containing carbon oxides and other not identified products of pyrolysis. Avoid inhaling combustion products as they may present health hazards

5.3. Advice for firefighters
Typical fire protection measures. Keep clear from the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. The containers exposed to fire or high temperature cool by spraying water on them at safe distance if possible. Gather extinguishing water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Limit the access of unauthorized persons to the area of failure until the completion of appropriate cleaning operations. In case of great leakage isolate the area of danger. Use personal protective equipment. Avoid contact with eyes and skin. Ensure proper ventilation. Make sure that breakdown and its results are eliminated by trained staff only
6.2. Environmental precautions
Do not allow the product to enter wastewater, water or soil, do not let the runoff to the sewage system. If needed, call the local emergency medical services.

6.3. Methods and material for containment and cleaning up
The leakage should be covered with absorbent material (e.g. sand, earth) and placed in marked containers. Larger leakage should be damped and the area embanked. The gathered material should be treated as waste and disposed. The contaminated area should be cleaned and ventilated.

6.4. Reference to other sections
Handling of the waste product: Section 13. Personal protection: Section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Follow the generally applicable regulations on health and safety. Do not eat, drink, or smoke in the workplace. Wash hands with soap and water after use. Ensure proper ventilation. Do not inhale vapors. Avoid contaminating eyes and skin. Do not let the product get to the mouth. Keep containers tightly closed if not in use. Apply appropriate personal protective equipment. The temperature of use from 5 to 25 °C

7.2. Conditions for safe storage including any incompatibilities
Store only in original, tightly closed packages in cool, dry and well ventilated rooms. Do not store with food or animal feed. Protect against freezing and direct sunlight

7.3. Specific end use(s)
No data other than that in Section 1.2
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No maximum concentration values for working environment are specified (Official Journal of 2002, No. 217, item 1833 as amended)

8.2. Exposure controls

Observe the generally applicable health and safety regulations. Do not eat, drink, or smoke in the workplace. Avoid contaminating of the eyes and skin

Hand protection

When handling the product, wear suitable protective gloves, resistant to chemicals. In short exposure use gloves which meet efficiency level 2 and penetration time > 10 min, in long exposure use gloves which meet efficiency level 6 and penetration time >480 min. It is important to remember that in contact with chemical products the given efficiency levels and corresponding penetration time do not reflect the actual time of protection at the workplace, as the duration of the protective action may depend on different factors, such as temperature, exposure to other substances, etc. It is advisable to change the gloves when any signs of deterioration appear, such as change in appearance (color, elasticity, shape). Follow the manufacturer’s instructions not only for use, but also for cleaning and maintenance. The way of removing gloves is also important so as not to contaminate hands in doing so.

Skin protection

Wear protective clothing

Eye protection

Wear protective goggles.
Respiratory protection

No special protection needed in normal work conditions

Individual protection measures must meet the requirements of Ordinance of the Minister of Economy of December 21, 2005 regarding essential requirements for personal protective equipment (Official Journal of 2005 No. 259, item 2173) and Directive 89/686/EC with later amendments. The employer must provide personal protective equipment appropriate for the type of work and meeting all requirements including maintenance and cleaning.

Control of environmental exposure

Do not allow big amounts of the product to enter wastewater, water or soil. Possible emissions from ventilation systems and process equipment should be checked if they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>dense liquid</td>
</tr>
<tr>
<td>Color</td>
<td>by product range</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odor threshold (odor)</td>
<td>not specified</td>
</tr>
<tr>
<td>PH value</td>
<td>8,5-8,8</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>not specified</td>
</tr>
<tr>
<td>Temperature / boiling range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable, the product is non-flammable</td>
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<tr>
<td>Evaporation rate</td>
<td>not specified</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper-lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>not specified</td>
</tr>
</tbody>
</table>
Vapor density: not specified
Density: approx. 1.58-1.60 g/cm³
Solubility in water: soluble in water
Partition coefficient n-octanol / water: not specified
Auto-ignition temperature: not specified
Decomposition temperature: not specified
Explosive properties: none
Oxidizing properties: none
Viscosity: 18000 – 20000 mPas

9.2. Other information
no extra research results

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is reactive, does not polymerize. See also Sections 10.3 – 10.5

10.2. Chemical stability
When properly stored the product is stable

10.3. Possibility of hazardous reactions
Not known

10.4 Conditions to avoid
Excessive heating, fire, freezing

10.5 Incompatible materials
Oxidizing agents, strong alkalis

10.6 Hazardous decomposition products
Unknown

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Components toxicity
Permethrin (PN) [CAS:52645-53-1]

LD50 (Leather rats) > 2000mg/kg of body weight  
LD50 (Oral, rats) 480mg / kg of body weight  

Mixture toxicity

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

Caustic / irritating effect on skin
Based on available data, the classification criteria are not met.

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

Respiratory/skin sensitization
Based on available data, the classification criteria are not met.

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

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

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

Target organ toxicity – single exposure
Based on available data, the classification criteria are not met.

Target organ toxicity – repeated exposure
Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1 Toxicity

Components toxicity

Permethrin (PN) [CAS:52645-53-1]
Toxicity to fish  0,0072mg/l  
Toxicity to daphnia  0,00196mg/l (Daphnia magna)

**Mixture toxicity**

Product is very toxic to aquatic organisms, may cause long term adverse effects.

**12.2 Persistence and degradability**

No data for the mixture

**12.3 Bioaccumulative potential**

No data for the mixture

**12.4 Mobility in soil**

Mobility of the components depends on their hydrophilic or hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climate conditions, seasons and soil organisms

**12.5 Results of PBT and vPvB assessment**

not applicable

**12.6 Other adverse effects.**

The product is not classified as dangerous for ozon layer. Yet, it is advisable to consider other adverse effects, such as endocrine disrupting potential or global warming potential

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

*For the mixture: Dispose of in accordance with valid regulations. Do not dispose of the mixtures in municipal waste. The remains should be kept in original containers. Do not mix with other types of waste. Recommended waste code 08 01 17 * (Paint and varnish waste containing organic solvents or other dangerous substances) Waste code should be assigned on the site of its generation*

*Handling of packaging waste: recovery/recycling/liquidation of packaging waste should be carried out in accordance with local regulations. Only completely emptied containers may be recycled.*


SECTION 14: Transport information

14.1 UN number – 3082

14.2 UN proper shipping name – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, I.N.O (PERMETHRIN)

14.3 Transport hazard class(es) – 9

14.4 Packing group – III

14.5 Environmental hazards – classified as an environmentally hazardous material under transport regulations

14.6 Special precautions for user – not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code – not applicable

Additional information for land transport (RID, ADR)

- Road and rail transport - ADR / RID
- limited quantities LQ: ADR 2009: LQ7 ADR 2013: 5L
- Hazard identification number: M6
- Tunnel restriction code: D/E
- IMDG Environmental hazard/marine pollutant yes

SECTION 15: Regulatory information

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

- The Act of February 25, 2011 on chemical substances and their mixtures (Official Journal 2011 No.63 item 322 as amended)
- Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of chemical substances and their mixtures (O.J..2012, item 1018, as amended).
- Ordinance of the Minister of Health of 20 April 2012 on the labeling of packaging of dangerous substances and dangerous mixtures and certain mixtures (Official Journal 2012,item 445, as amended).
Regulation of the Minister of Labour and Social Policy of 29 November 2002 on Maximum Concentration and Intensities of Factors Harmful to Health in The Working Environment (Official Journal No 217, item 1833 as amended)

Government Statement of 28 May 2013 on the entry into force of the amendments A and B of The European Agreement on international carriage of non-safe goods by road (ADR) issued in Geneva on September 30, 1957 (Official Journal of 2013 item 815)


Regulation of the Minister of Environment of 27 September 2001 on the catalogue of waste (Official Journal No 112 item 1206)

Ordinance of the Minister of Economy of December 21, 2005 regarding essential requirements for personal protective equipment (Official Journal of 2005 No. 259, item 2173).

Regulation of the Minister of Health of February 2, 2011 on testing and measurements of agents harmful to health in the work environment (Official Journal of 2011, No. 33, item 166).


15.2 Chemical safety assessment
Safety assessment for this mixture is not required

SECTION 16: Other information
Contents of hazard statements R and H from section 3 of the safety data sheet:
R20/22 Harmful by inhalation and if swallowed
R43 May cause sensitization by skin contact
R50/53 Very toxic to aquatic organisms/ may cause long-term adverse effects in the aquatic environment
H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H332 Harmful if inhaled
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long-lasting effects

Meanings of the abbreviations listed in the Data Sheet
PBT (Substance) Persistent, bioaccumulative, and toxic
vPvB (Substance) Very persistent and very bioaccumulative
Skin. Sens. 1 Skin sensitization, category 1
Acute Tox. 4 Acute toxicity, category 4
Aquatic Acute 1 Hazardous to the aquatic environment, category acute 1
Aquatic Chronic 1 Hazardous to the aquatic environment, category chronic 1
Training:
Before working with the product a user should get acquainted with occupational safety regulations related to chemicals handling and in particular have proper workplace training.

Additional information
Created on: 21.05.2014
Version: 1.0/PL
Person who wrote the Safety Data Sheet: Aleksandra Gondek (basing on data provided by the manufacturer)
Safety Data Sheet issued by: “Theta” Technical Consulting

The information contained in the Data Sheet was created on the basis of currently available data that is characteristic for the product and manufacturer’s experience and knowledge in this area. The technical data contained in this Sheet are not a quality specification and do not constitute a guarantee of specific properties. It should be used only as an aid in safe transport, handling and storage of the product. The user has a responsibility to ensure that this information is suitable and complete for his specialized use of the product and also to observe all the applicable laws and regulations.