

# **SAFETY DATA SHEET – Part.1 of 2.**

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 2015/830

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

### 1.1. Product identifier

Product Name PermaFyx L272

**Product Inclusion** Part.1 of this document covers PermaFyx L272 only.

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

**Identified Uses** Paints and varnishes

Uses advised against None

#### 1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.

Railside

Northarbour Spur Portsmouth PO6 3TU

+44 (0) 23 9220 0606 mail@meonuk.com

### 1.4. Emergency Telephone Number

**Emergency telephone** +44 (0) 808 118 1922

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour.

**Skin Irrit. 2 / H315** Skin corrosion/irritation Causes skin irritation.

Skin Sens. 1 / H317Respiratory or skin sensitisationMay cause an allergic skin reaction.STOT SE 3 / H335STOT-single exposureMay cause respiratory irritation.

### 2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms** 

Signal word Danger

**Hazard statements** H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation.

**Precautionary statements** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P280 - Wear protective gloves and eye/face protection.

P370 + P378 - In case of fire: Use extinguishing powder or sand to extinguish. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Store in a well-ventilated place. Keep cool

Hazard components for labelling

Methyl methacrylate 2-ethylhexyl acrylate

Supplemental Hazard information (EU)

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

2.3. Other hazards

Other hazards No information available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

### 3.2. Mixtures

Designation // Remark	Identification	Classification (EC) 1272/2008 [CLP]	Wt %
Methyl methacrylate	CAS No: 80-62-6 EC-No: 201-297-1 Index-No: 607-035-00-6 REACH No: 01-2119452498-28-XXXX	Flam. Liq. 2 H225 STOT SE 3 H335 Skin Irrit. 2 H315 Skin Sens. 1 H317 GHS02 GHS07 Dgr	12.5 - 20
2-ethylhexyl acrylate	CAS No: 103-11-7 EC-No: 203-080-7 Index-No: 607-107-00-7 REACH No: 01-2119453158-37-XXXX	Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335 GHS07 Wng	10 - 12.5
2,2- Ethylendioxiddiethyldimethacrylate	CAS No: 109-16-0 EC-No: 203-652-6 REACH No: 01-2119969287-21-XXXX	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	1 - 2.5

### **Additional information**

Full text of classification see section 16.

#### **SECTION 4: First aid measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

### 4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical advice. In case of

unconsciousness give nothing by mouth, place in recovery position and seek medical

advice.

**Inhalation** Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or

respiratory arrest provide artificial respiration.

Skin contact Take off immediately all contaminated clothing. After contact with skin, wash

immediately with plenty of water and soap. Do not use solvents or thinners.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Seek medical advice immediately.

**Ingestion** If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice

immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

**Suitable extinguishing media** Alcohol resistant foam, carbon dioxide, Powder, spray mist, (water).

Unsuitable extinguishing media Strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard Dense black smoke occurs during fire. Inhaling hazardous decomposing products can

cause serious health damage.

#### 5.3. Advice for firefighters

**Advice for firefighters** Provide a conveniently located respiratory protective device. Cool closed containers that

are near the source of the fire. Do not allow water used to extinguish fire to enter drains,

ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Precautions** Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

**Environmental precautions** Do not allow to enter into surface water or drains. If the product contaminates lakes,

rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Isolate leaked material using non-flammable absorption agent (e.g., sand, earth,

vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see Section 13). Clean using cleansing agents. Do

not use solvents.

## 6.4. Reference to other sections

**Reference to other sections** Observe protective provisions (see Section 7 and 8).

#### **SECTION 7: Handling and storage**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions on safe handling

Advice on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information** 

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms

and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Further information on storage

conditions

Keep away from strongly acidic and alkaline materials as well as oxidizers. Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 10 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised

persons. Store carefully closed containers upright to prevent any leaks.

# 7.3. Specific end use(s)

Specific end use(s)

Observe technical data sheet. Observe instructions for use.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### Occupational exposure limit values:

## Methyl methacrylate

INDEX No. 607-035-00-6 / EC No. 201-297-1 / CAS No. 80-62-6

WEL, TWA: 208 mg/m<sup>3</sup>; 50 ppm WEL, STEL: 416 mg/m<sup>3</sup>; 100 ppm

#### **Additional information**

TWA: long-term occupational exposure limit value STEL: short-term occupational exposure limit value

Ceiling: peak limitation

#### 8.2. Exposure controls

General Provide good ventilation. This can be achieved with local or room suction. If this should

not be sufficient to keep aerosol and solvent vapour concentration below the exposure

limit values, a suitable respiratory protection must be used.

**Respiratory protection** If concentration of solvents is beyond the occupational exposure limit values, approved

and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR

190). Use only respiratory protection equipment with CE-symbol including four digit test

number.

**Hand protection** For prolonged or repeated handling the following glove material must be used: CR

(polychloroprene, chloroprene rubber)

Thickness of the glove material > 0.4 mm; Breakthrough time (maximum wearing time) > 480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374. Barrier creams can help protecting exposed skin areas. In no case

should they be used after contact.

**Eye/face protection** Wear closely fitting protective glasses in case of splashes.

**Body protection** Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures** After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls** Do not allow to enter into surface water or drains. See Section 7. No additional measures

necessary.

### **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

Physical state Liquid

Colour Refer to label
Odour Characteristic
Odour threshold Not applicable
pH at 20 °C Not applicable
Melting point/freezing point Not applicable
Initial boiling point and boiling Not applicable

range

Flash point 10 °C

Method: DIN 53213

**Evaporation rate** Not applicable

Flammability

Burning time: Not applicable

Upper/lower flammability or

explosive limits

Lower explosion limit: 0.8 Vol-%
Upper explosion limit: Not applicable
Vapour pressure at 20 °C
Vapour density

0.8 Vol-%
Not applicable
Not applicable

**Relative density** 

Density at 20 °C 1.52 g/cm<sup>3</sup>

Solubility(ies)

Water solubility (g/L) at 20 °C Insoluble

Partition coefficient: n- see Section 12

octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity at 20 °C

Not applicable

Not applicable

50 s 6 mm

Method: DIN 53211

Explosive properties Not applicable

Oxidising properties Not applicable

9.2. Other information

Solid content (%) 100 Weight %

Solvent content

Organic solvents0 Weight %Water0 Weight %

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further

information on correct storage: refer to Section 7.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Keep away from strong acids, strong bases and strong oxidizing agents to avoid

exothermic reactions.

10.4. Conditions to avoid

**Conditions to avoid** Hazardous decomposition by-products may form with exposure to high temperatures.

10.5. Incompatible materials

Materials to avoid Not applicable

10.6. Hazardous decomposition products

Hazardous decomposition Hazardous decomposition by-products may form with exposure to high temperatures,

**products** e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## **SECTION 11: Toxicological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

# 11.1. Information on toxicological effects

# **Acute toxicity**

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

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

# Respiratory or skin sensitisation

May cause an allergic skin reaction.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

#### STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

#### **Aspiration hazard**

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

#### Practical experience/human evidence

### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

Toxicological data are not available.

#### 12.3. Bioaccumulative potential

Toxicological data are not available.

#### 12.4. Mobility in soil

Toxicological data are not available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### 13.1. Waste treatment methods

**Appropriate disposal / Product** 

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111\*

Waste paint and varnish containing organic solvents or other dangerous substances \*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

# **SECTION 14: Transport information**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport.

#### 14.1. UN number

**UN** number UN 1263

#### 14.2. UN proper shipping name

ADR/RID **Paint IMDG PAINT** IATA-DGR / ICAO-TI **Paint** 

### 14.3. Transport hazard class(es)

Transport hazard class(es) 3

### 14.4. Packing group

**ADR** Ш for packages > 450 litres Ш **IMDG** Ш

IATA-DGR / ICAO-TI

14.5. Environmental hazards

ADR/RID Not applicable
Marine pollutant Not applicable

#### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information** 

ADR/RID

tunnel restriction code E for packages > 450 litres D/E

**IMDG** 

EmS-No. F-E, S-E

IATA-DGR / ICAO-TI

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Ш

Not applicable

#### **SECTION 15: Regulatory information**

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

**EU** legislation

**Directive** 2010/75/EU on VOC-value (in g/L): 3

industrial emissions

**National regulations** 

**Restrictions of occupation** Observe employment restrictions under the Maternity Protection Directive (92/85/EEC)

for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work

protection guideline' (94/33/EC).

#### 15.2. Chemical safety assessment

EC No. CAS No.	Designation	REACH No.	
201-297-1 80-62-6	Methyl methacrylate	01-2119452498-28-XXXX	

#### **SECTION 16: Other information**

#### Full text of classification in section 3

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour. STOT SE 3 / H335 STOT-single exposure May cause respiratory irritation.

Skin Irrit. 2 / H315 Skin corrosion/irritation Causes skin irritation.

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.

#### Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2Flammable liquidsOn basis of test data.Skin Irrit. 2 / H315Skin corrosion/irritationCalculation method.Skin Sens. 1 / H317Respiratory or skin sensitisationCalculation method.STOT SE 3STOT-single exposureCalculation method.

#### Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL Occupational Exposure Limit Value

BLV Biological Limit Value
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging
CMR Carcinogenic, Mutagenic and Reprotoxic

**DIN** German Institute for Standardization / German industrial standard

**DNEL** Derived No-Effect Level

**EAKV** European Waste Catalogue Directive

EC Effective Concentration
EC European Community
EN European Standard

IATA-DGR International Air Transport Association – Dangerous Goods Regulations

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of

Dangerous Goods by Air

IMDG CodeInternational Maritime Code for Dangerous GoodsISOInternational Organization for Standardization

**LC** Lethal Concentration

**LD** Lethal Dose

MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from

Ships

OECD Organisation for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic
PNEC Predicted No Effect Concentration

**REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

**UN** United Nations

**VOC** Volatile Organic Compounds

vPvB very persistent and very bioaccumulative

Further information Classification according to Regulation (EC) No 1272/2008 [CLP]

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



### SAFETY DATA SHEET – Part.2 of 2.

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

### 1.1. Product identifier

**Product Name** MMA Resin Peroxide

Product Inclusion Part.2 of this document covers the Magma PermaFyx L272 MMA Based Pavement

Repair – catalyst only.

Container Size 80g

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

Identified Uses Hardener for road marking filler (3 components)

Mix only the Catalyst Part B

Respect the dosage Part B/hardener indicated by the supplier.

Professional use only

**Uses advised against**No specific uses advised against are identified.

## 1.3. Details of the supplier of the safety data sheet

**Supplier** Meon Ltd.

Railside

Northarbour Spur Portsmouth PO6 3TU

+44 (0) 23 9220 0606 mail@meonuk.com

## 1.4. Emergency Telephone Number

**Emergency telephone** +44 (0) 808 118 1922

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Classification according to regulation EC1272/2008 and amendments

Org. Perox. D Category D – H242

SKIN Sens. 1 – Hazard category 1 – H317 Eye Irrit. 2 – Hazard category 2 – H319 Aquatic Acute. 1 – Hazard category 1 – H400 Aquatic Chronic. 1 – Hazard. Category 1 – H410 Repr. 1B – Hazard Category 1B – H360D

2.2. Label Elements

### Hazard pictograms



Signal word Danger

**H-statement(s)** H242 – Heating may cause a fire.

H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation.

H360D May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects

**P-statement(s)** P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep away from strong acids, bases, heavy metals salts and other.

reducing substances.

P234 Keep only in original container. P261 Avoid breathing dust/vapours. P273 – Avoid release to the environment.

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

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

lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local and national regulation

#### 2.3. Other hazards

The mixture component: dicyclohexyl phthalate CAS: 84-61-7 is on the Candidate List SVHC

### **SECTION 3: Composition/information on ingredients**

### **SUBSTANCE [] MIXTURE [X]**

Dangerous component(s)

Ingredient	CAS No. EC No. REACH No.	Index	Classification (EC) 1272/2008	Concentration
Dibenzoyl peroxide	94-36-0 202-327-6 01-2119511472-50-0001	617-008-00-0	Org. Perox. B – H241 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Aquatic Acute 1 – H400 (M=10)** Aquatic Chronic 1, H410; M=10  GHS01 GHS02 GHS07 Dgr	49-52.5%
Diclohexyl phtalate	84-61-7 201-545-9 01-2119978223-34-0000	607-719-00-4	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412	47.5-51%
silicon dioxide obtained by chemical transformation	112926-00-8 7631-86-9 231-545-4 01-2119379499-16-0000	-	Not classified	<0.5%

### **SECTION 4: First aid measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

# 4.1. Description of first aid measures

**In case of inhalation:** Move immediately subject to fresh air and keep him calm.

Place the victim in a position where it can easily breathe.

If breathing is difficult, seek medical attention.

In case of skin contact: Wash immediately with non-abrasive soap and plenty of water, at least 15 minutes. If

skin irritation persists, consult a doctor.
Wash contaminated clothing before re-using.

**In case of eye contact:** Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open.

If the person uses contact lenses, remove them with caution.

Quickly consult a specialist if irritation persists.

In case of ingestion: Do not induce vomiting. Get medical attention immediately.

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

Sensitization of the skin - redness, swelling, irritation of the eyes. Suspected of damaging fertility or the unborn child

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

**Suitable extinguishing media** water spray, carbon dioxide, foam, sand.

Extinguishing media which must

Do not use halons.

not be used for safety reasons

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards during

Contains substances that may result in explosion caused by heat.

firefighting

The product decomposes in an explosive way from 60°C.

The products of decomposition must be considered as potentially dangerous and precautions must be taken in consequences (mix of benzene, benzoic acid, biphenyl, phenyl benzoate, carbon dioxide).

#### 5.3. Advice for firefighters

firefighting.

Special protective equipment for

Wear full firefighting protective clothing and self-contained breathing

apparatus.

Use water spray to keep fire-exposed containers cool.

Do not allow fire extinguishing water to contaminate surface or

groundwater systems.

**Further information** Extinguish a small fire with powder or carbon dioxide then apply water to

prevent re-ignition, containers and equipment located near the fire should be cooled with water; water used to extinguish fire should not get into the

sewer system and waterways.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing, protective gloves, eye protection and face. Do not let to contaminate the peroxide into drains and ground water; avoid hot, contact with combustible materials and flammable substances.

#### 6.2. Environmental precautions

Do not let enter drains, surface and ground water and soil.

#### 6.3. Methods and material for containment and cleaning up

Protect drains. Collect material into sealable plastic containers and transported to the disposal site. Waste should NOT be closed.

## Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions on safe handling

Weigh at temperature below than +25°C, do not mix directly with reducing agents, promoters, etc. Do not shake, do not throw, etc. Do not eat, drink or smoke in the production and storage. After work, wash your hands every time. Keep work clothing separately and do not take home. Do not use tools that cause sparks.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition, heat, light, at a temperature below +30°C.

Do not smoke, before and after contact with the peroxide wash your hands thoroughly; Only use of a suitable tool material (polyethylene, polypropylene, stainless steel).

### 7.3. Specific and uses

No information about other applications than the udder in subsection 1.2.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Regulation of the Minister of Labor and Social Policy of 12 June 2018 on the highest allowable concentrations and intensities of agents harmful to health in the work environment (Journal of Laws of 2018, item 1286 of 3 July 2018)

#### Dibenzoyle peroxide

NDS – 5 mg/m3 NDSCH – 10 mg/m3 TWA – 5 mg/m3

DNEL for workers (Chronic exposure by inhalation systemic) 39 mg/m3. DNEL for workers (dermal chronic, systemic): 13,3 mg / kg body weight / day

DNEL for workers (dermal chronic, local): 34 µg/cm2

### Dicyclohexyl phthalate

NDS: not determined.
NDSCh: not determined

DNEL for employee (chronic exposure by inhalation, systemic): 35.2 mg/m3

DNEL for workers (dermal chronic, systemic): 0.5 mg/kg/day

DNEL general population (chronic exposure by inhalation, systemic): 0.87 mg/m3 DNEL general population (chronic exposure through the skin, systemic): 0.25 mg/kg/day

DNEL general population (chronic oral, systemic): 0.25 mg/kg/day

#### Silicon dioxide obtained by chemical transformation

total dust – NDS - 10 mg/m3 respirable dust- NDS - 2 mg/m3

#### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Make sure that working area is well ventilated. Explosion proof ventilation is recommended.

#### 8.2.2. Individual protection measure, such as personal protective equipment a

**Eye/face protection** Use safety goggles or face protection from plexiglass.

**Skin protection** Use appropriate protective antistatic clothing.

**Hand protection** Use appropriate protective gloves of synthetic rubber like neoprene or butyl-rubber

(thickness: 0.5 mm, rupture time > 8h).

**Respiratory protection** Use short duration filter unit: Filter A

**Thermal hazards** in normal work condition no thermal hazard.

Hygiene at the work General regulations on hygiene. Do not allow them to cross in the workplace environment,

regulatory exposure limits. After working Remove contaminated clothing - not to take

home. Do not eat, drink or smoke in the production and storage facilities.

After work, wash your hands each time.

#### 8.2.3. Environmental exposure controls

Protect against the introduction into the municipal water and sewage system and watercourses.

## Dibenzoyl peroxide:

PNEC freshwater:  $0.02 \mu g / I$  PNEC sea water:  $0.002 \mu g / I$ 

PNEC sediment-freshwater: 0.013 mg / kg PNEC sediment-see water: 0.001 mg / kg

PNEC soil: 0.002 mg / kg soil PNEC STP: 0.35 mg / l

#### Dicyclohexyl phthalate:

PNEC: freshwater water: 0.00362 mg/l PNEC sea water: 0.000362 mg/l PNEC periodic release: 0.0362 mg/l PNEC sediment- see water: 1.06 mg/kg.

PNEC soil: 0.21 mg/kg PNEC STP: 10 mg/

#### **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

Appearance- Colour - Odour Solid. Powdery - White - faint odour

pH Ca. 7

Boiling Point [°C] Not determined.
Flash point Not determined.
Evaporate Rate Not determined.
Solubility in water Insoluble
Flammable limits Not applicable.
Vapour pressure Not applicable.
Relative vapour density (related 630kg/ m3

to air)

**Gravity** 620 kg/m3 - 20°C **Partition coefficient (n-** Not determined.

octanol/water)

Auto ignition temperature Not determined.

**Decomposition temperature** +55°C

Viscosity Not applicable.

**Explosive properties**One component (benzoyl peroxide is explosive)

Oxidising properties Organic peroxide

#### 9.2. Other information

Active oxygen content: 3.24 - 3.47%

### **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

sensitive to exothermic decomposition, decomposition is initiated by heat, contact with impurities (e.g. acids, heavy metal compounds, amines), friction or impact.

### 10.2. Chemical stability

under heat rapidly disintegrate.

## 10.3. Possibility of hazardous reactions

SADT (self accelerating decomposition temperature) possible at temperature above approximately +55°C, vapour may form explosive mixtures with air.

# 10.4. Conditions to avoid

Avoid high temperatures, light, pollution, rust.

### 10.5. Incompatible materials

Avoid contact with rust, copper, heavy metals, strong oxidizing agents, strong acids and strong bases

#### 10.6. Hazardous decomposition products

hydrocarbons, derivatives of benzoic acid, irritating, corrosive, flammable gases may be formed in a fire or decomposition.

#### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

The mixture was not tested, application of the conventional method from different substances which compose it.

**Acute Toxicity** 

Chemical name: DIBENZOYL PEROXIDE

Oral: no adverse effect observed

DNEL: 2000 mg/kg bw; LD50(mouse): > 2000 mg/kg

Dermal: no study available

**Skin corrosion/irritation:** No adverse effect observed – not irritant

**Serious eye** Adverse effect observed – irritant

damage/irritation:

Respiratory or skin

sensitisation:

Adverse effect observed – cause sensitisation by skin contact

Germ cell mutagenicity: In vitro/in vivo - no adverse effect observed (negative result)

**Carcinogenicity:** Oral, skin -no relevant information available

Inhalation – no data available

**Reproductive toxicity:** No data available

STOT – single exposure Not classified based on available information STOT – repeated exposure Not classified based on available information Repeated dose toxicity Not classified for repeated dose toxicity

oral: adverse effect observed

NOAEL: 200 mg/kg bw/day (rat, chronic) skin (systemic): no adverse effect observed NOAEL: 833 mg/kg bw/day (rat, chronic) skin (local): adverse effect observed NOAEL: 0.17 mg/cm2 (mouse, chronic) Inhalation (systemic, local): no data available

**Aspiration hazard** Not classified based on available information.

Chemical name: DICYCLOHEXYL PHTHALATE
Acute toxicity: LD50 (rat):> 2000 mg / kg
Skin corrosion/irritation: Not present – not classified

Serious eye

Eyes - slight irritation - not classified

damage/irritation: Respiratory or skin sensitisation:

Possible sensitization by skin contact

Germ cell mutagenicity: Does not occur
Carcinogenicity: Does not occur

Reproductive toxicity: may damage the unborn child

rat 240 ppm NOAEL No data available

STOT – single exposure STOT – repeated

No data available

exposure

Repeated dose toxicity NOAEL rat, 50 mg/kg bw./day

**Aspiration hazard** No data available

SILICON DIOXIDE OBTAINED BY CHEMICAL TRANSFORMATION

Acute toxicity: oral - LD50 (rat):> 10000 mg / kg inhalation - LC0 (rat, 4h): 0.139 mg / l

skin - LC50(rabbit): > 5000 mg / kg

Skin corrosion/irritation:
Not present – not classified

Not present – not classified

Serious eye damage/irritation:

Respiratory or skin

sensitisation:

Not present - not classified

Germ cell mutagenicity: Carcinogenicity:

Does not occur Does not occur

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Reproductive toxicity: STOT – single exposure STOT – repeated Does not occur No data available No data available

exposure

Repeated dose toxicity
Aspiration hazard
No data available
No data available

# **SECTION 12: Ecological information**

The mixture was not tested, application of the conventional method from different substances which compose it.

### 12.1. Toxicity

Substance(s)			EC50	CL50	LC50	Species
Dibenzoyle peroxide -	NOEC	0.110 mg/l	0.0765 mg/l		0.110 mg/l	Daphnia magna (48h)
factor M = 10						
	NOEC	0.0602 mg/l	0.0602 mg/l			Fish (96h)
	NOEC	0.0711 mg/l	0.0711 mg/l			Alagae (72h)
	NOEC	35 mg/l	35 mg/l			Bacteria (0.5h)
Dicyclohexyl			2mg/l acute			Daphnia magna (48h)
Phthalate			toxic			
	NOEC	0.679 mg/l				Daphnia magna (21
		chronic toxic				days)
_					>2 mg/l	Fish (96h)
					0.06mg/l	Alagae (72h)

### 12.2. Persistence and degradability

**DIBENZOYL PEROXIDE:** 

It is hydrolytically unstable under basic conditions, acidic and neutral. Benzoic acid is the major compound produced by the decomposition during hydrolysis.

DICYCLOHEXYL PHTHALATE:

readily biodegradable - 91% - 28 days

### 12.3. Bioaccumulative potential

**DIBENZOYL PEROXIDE:** 

Log Kow = 3.2 indicates a low probability of bioaccumulation; readily biodegradable

DICYCLOHEXYL PHTHALATE:

Potential low

Ig Pow 4.82 (25oC)

BCF: 85 – 90

#### 12.4. Mobility in soil

DIBENZOYL PEROXIDE:

Koc = 6310 at temp. 20oC

**DICYCLOHEXYL PHTHALATE:** 

substance is insoluble

log Koc=3.46 w temp. 20oC

# 12.5. Results of PBT and vPvB assessment

This product does not contain any BPT or vPvB substance

### 12.6. Other adverse effects

No data available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Spilled products collect for recycling. The product expired - for recycling. Waste code 16 03 05\* "organic wastes containing dangerous substances". The product may be disposed of by incineration. Burning should be done in a location away from buildings and industrial facilities in a specialized furnace to burn waste chemicals. Packaging of the product be disposed of as hazardous waste code 15 01 10\* "Packaging containing residues of or contaminated by dangerous ..."

### **SECTION 14: Transport information**

	ADR / RID	IMDG	IATA	
14.1 N° ONU	3106			
14.2 UN proper shipping name	PEROXYDE ORGANIQUE de type D, solide (Dibenzoyle peroxyde)			
14.3 Transport hazard classe label	5.2			
14.4 Packing Group	Non-applicable	Non-applicable	Non-applicable	
14.5 Dangerous for Environment	Yes	Yes	Yes	
14.6 Special precautions for users	Tunnel restriction : D Limited quantities: 500g	Limited quantities :500g		
14.7 Transport in bulk (annexe II MARPOL 73/78 ans IBC code)	Not authorized for carriage in bulk			

## **SECTION 15: Regulatory information**

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

Regulation No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).

European Agreement Concerning the International Carriage of Dangerous Goods by Road, 2019 Candidate List SVHC, updated on 16/01/2020:

There is the component of the mixture on the list - Dicyclohexyl phthalate CAS: 84-61-7

#### 15.2 Chemical safety assessment

Data not available.

# **SECTION 16: Other information**

### Relevant H & R phrases from section3

H241 Heating may cause a fire or explosion

H317 May cause an allergic skin reaction

H319 Irritating to eyes

H360D May damage the unborn child

H400 Very toxic to aquatic organisms

H410 Very toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

#### Abbreviations and acronyms

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Explanation of abbreviations / acronyms

BCF - Bio Concentration Factor

DNEL - derived dose level (concentration) at which no observed adverse effect level [mg/kg, mg/l]

PNEC - predicted concentrations do not cause changes in the environment [mg/kg, mg/l]

NOEC - the highest dose, or concentration of a toxic substance at which no adverse effect is observed in its operation.

NOAEL - no observable adverse effect level

NDS Exposure Limit - the average weighted concentration, the impact on the employee, during an 8-hour daily and average weekly working time laid down in the Labour Code, the period of its activity should not cause negative changes in its state of health and in the health of future generations.

NDSCh - Maximum Acceptable Concentrations Momentarily - the average concentration that should not cause adverse changes in the health of the worker, whether in the workplace no longer than 15 minutes and not more than two times during the work shift, with an interval of not less than one hour.

Training: Those involved in trading a hazardous substance should be trained in the handling, safety and hygiene. Drivers should be trained and obtain proper certification in accordance with the requirements of ADR.

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