

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

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

**1.1 Product identifier**

BIPOX 2K ZFF RM-1013 VERHARDER (6146)

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

Paint/paint-related material for industrial/professional use (see technical documentation).

**1.3 Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

PearlPaint Group

**Street :** Larserpoortweg 20

**Postal code/city :** 8218 NK Lelystad

**Telephone :** +31 (0)32 0285353

**Information contact :** msds@pearlpaint.nl

**1.4 Emergency telephone number**

+31 (0)32 0285353 (Office hours 08:00 - 16:30 GMT +1) Outside office hours: call a Poison Center or doctor/physician.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

**Classification procedure**

Calculation method.

**2.2 Label elements**

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

**Hazard pictograms**



Flame (GHS02) · Health hazard (GHS08) · Corrosion (GHS05) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

XYLENE ; CAS No. : 1330-20-7

BUTAN-1-OL ; CAS No. : 71-36-3

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2

**Hazard statements**

H226 Flammable liquid and vapour.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

H373 May cause damage to organs through prolonged or repeated exposure.  
H318 Causes serious eye damage.  
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.  
P233 Keep container tightly closed.  
P310 Immediately call a doctor.  
P321 Specific treatment (see instructions on this label).  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### 2.3 Other hazards

None

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous ingredients

FATTY ACIDS, C18-UNSATD., DIMERS, REACTION PRODUCTS WITH POLYETHYLENEPOLYAMINES ; REACH No. : 01-2119972323-38 ; EC No. : 614-452-7; CAS No. : 68410-23-1

Weight fraction :  $\geq 50 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction :  $\geq 25 - < 50 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

BUTAN-1-OL ; REACH No. : 01-2119484630-38 ; EC No. : 200-751-6; CAS No. : 71-36-3

Weight fraction :  $\geq 10 - < 20 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; REACH No. : 01-2119560597-27 ; EC No. : 202-013-9; CAS No. : 90-72-2

Weight fraction :  $\geq 3 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1B ; H317

##### Additional information

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

##### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

##### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

## After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

## After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Sand Water mist

#### Unsuitable extinguishing media

Strong water jet

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

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses. Use suitable breathing apparatus.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

##### Protective equipment

Use personal protection equipment. Provide adequate ventilation. Remove all sources of ignition.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean with detergents. Avoid solvent cleaners.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Heating causes rise in pressure with risk of bursting. Provide earthing of containers, equipment, pumps and ventilation facilities. Avoid contact with skin and eyes. Inhalation of dust/particles Generation/formation of mist When using do not eat, drink, smoke, sniff.

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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect containers against damage. Keep only in the original container in a cool, well-ventilated place. Do not allow to enter into surface water or drains.

### Requirements for storage rooms and vessels

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Remove all sources of ignition.

### Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Only use containers specifically approved for the substance/product.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : STEL ( EC )

Limit value : 100 ppm / 442 mg/m<sup>3</sup>

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : TWA ( EC )

Limit value : 50 ppm / 221 mg/m<sup>3</sup>

Remark : H

Version : 08-06-2000

### 8.2 Exposure controls

#### Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

Solvent-resistant protective gloves must be worn.

**Suitable gloves type :** Disposable gloves.

**Suitable material :** NR (natural rubber, natural latex)

**Required properties :** liquid-tight.

**Breakthrough time (maximum wearing time) :** > 60 min

**Thickness of the glove material :** > 0,5 mm

**Recommended glove articles :** EN ISO 374

##### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

#### General information

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

### 8.3 Additional information

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** transparent

**Odour :** solvent

#### Safety characteristics

<b>Solidifying point :</b>	( 1013 hPa )	No data available
<b>Melting point/freezing point :</b>	( 1013 hPa )	No data available
<b>Freezing point :</b>		No data available
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	No data available
<b>Decomposition temperature :</b>	( 1013 hPa )	No data available
<b>Flash point :</b>		26 °C
<b>Auto-ignition temperature :</b>		No data available
<b>Lower explosion limit :</b>		1,4 Vol-%
<b>Density :</b>	( 20 °C )	0,95 g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	< 3 %
<b>Water solubility :</b>	( 20 °C )	practically insoluble
<b>pH :</b>		not applicable
<b>Viscosity :</b>	( 20 °C )	400 mPa*s
<b>Solid content :</b>		63,8 Wt %
<b>Solvent content :</b>		36,2 Wt %
<b>Odour threshold :</b>		No data available
<b>Evaporation rate :</b>		No data available
<b>Vapourisation rate :</b>		No data available
<b>VOC-value :</b>		344 g/l
<b>Explosive properties :</b>	No data available.	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
Revision date : 11-12-2021  
Print date : 21-02-2023

Version (Revision) : 7.0.0 (6.0.0)

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Oral

Species : Rat

Effective dose : 8700 mg/kg

Parameter : LD50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )

Exposure route : Oral

Species : Rat

Effective dose : 790 mg/kg

##### Acute dermal toxicity

Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Dermal

Species : Rabbit

Effective dose : 2000 mg/kg

Parameter : LD50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )

Exposure route : Dermal

Species : Rabbit

Effective dose : 3400 mg/kg

##### Acute inhalation toxicity

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Inhalation

Species : Rat

Effective dose : 6350 mg/l

Parameter : LC50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )

Exposure route : Inhalation

Species : Rat

Effective dose : 8000 ppm

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information 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 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
Revision date : 11-12-2021  
Print date : 21-02-2023

Version (Revision) : 7.0.0 (6.0.0)

No information available.

## 12.8 Additional ecotoxicological information

Product may not be released into water without pre-treatment (biological sewage plant).

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## SECTION 14: Transport information

### 14.1 UN number

UN 1263

### 14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT RELATED MATERIAL

Sea transport (IMDG)

PAINT RELATED MATERIAL

Air transport (ICAO-TI / IATA-DGR)

PAINT RELATED MATERIAL

### 14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3

Classification code : F1

Hazard identification number (Kemler

No.) : 30

Tunnel restriction code : D/E

Special provisions : LQ 5 I · E 1 · Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID.

Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3

EmS-No. : F-E / S-E

Special provisions : LQ 5 I · E 1 · IMDG 2.3.2.5 (<= 30 l)

Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3

Special provisions : E 1

Hazard label(s) : 3

### 14.4 Packing group

III

### 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

### 14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
Revision date : 11-12-2021  
Print date : 21-02-2023

Version (Revision) : 7.0.0 (6.0.0)

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

##### Other regulations (EU)

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

### 16.2 Abbreviations and acronyms

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

ASTM = American Society of Testing and Materials (US)

CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)

DNEL = Derived No-Effect Level

DT50 = Time for 50% loss; half-life

EbC50 = Median effective concentration (biomass, e.g. of algae)

EC50 = Median effective concentration

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)

Erc50 = Median effective concentration (growth rate, e.g. of algae)

EWC = European Waste Catalogue

IATA = International Air Transport Association

IC50 = Concentration that produces 50% inhibition

IMDG = International Maritime Dangerous Goods Code

IMO = International Maritime Organization

LC50 = Concentration required to kill 50% of test organisms

LD50 = Dose required to kill 50% of test organisms

LEL = Lower Explosive Limit/Lower Explosion Limit

LOAEL = Lowest observed adverse effect level

MRL = Maximum Residue Limit

NOAEL = No Observed Adverse Effect Level

NOEC = No observed effect concentration

NOEL = No Observable Effect Level

OEL = Occupational Exposure Limits

PBT = Persistent, Bioaccumulative or Toxic

PNEC = Previsible Non Effect Concentration

STEL = Short-Term Exposure Limit

TWA = Time-Weighted Average

vPvB = Very Persistent and Very Bioaccumulative

### 16.3 Key literature references and sources for data



**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**



**Trade name :** BIPOX 2K ZFF RM-1013 VERHARDER (6146)  
**Revision date :** 11-12-2021  
**Print date :** 21-02-2023

**Version (Revision) :** 7.0.0 (6.0.0)

None

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

No information available.

**16.5 Relevant H- and EUH-phrases (Number and full text)**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

**16.6 Training advice**

None

**16.7 Additional information**

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.