

# SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006



**Product name: Roofcell Basecoat**

**Creation date: 13.04.2021, Revision: 02.03.2023, version: 1.0**

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

### 1.1 Product identifier

Product name

Roofcell Basecoat

UFI:

7A00-C0F3-3003-Q03E



<https://my.chemius.net/p/qlXBaz/en/pd/e4>

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

Relevant identified uses

Resin for roofing. Contact the manufacturer for any other applications.

Uses advised against

No information.

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

Supplier

G&B Northwest Ltd  
Giants Hall Farm  
WN6 8RY Wigan, United Kingdom  
+44 (0)1942 518150  
technical@cureit.uk.com

Manufacturer

G&B Northwest Ltd  
Giants Hall Farm  
WN6 8RY Wigan, United Kingdom  
+44 (0)1942 518150  
enquiries@gandbnw.co.uk

### 1.4 Emergency Telephone Number

Emergency

112

Supplier

+44 (0)1942 518150 Mon-Friday 8.30 am – 4.30 pm

## 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 liquid and vapour.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H335 May cause respiratory irritation.

Repr. 2; H361d Suspected of damaging the unborn child.

STOT RE 1; H372 Causes damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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



Signal word: **DANGER**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains phthalic anhydride. May produce an allergic reaction.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take action to prevent static discharges.  
P260 Do not breathe vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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 + P233 Store in a well-ventilated place. Keep container tightly closed.

Contains:  
styrene

- 2.3 Other hazards
- PBT/vPvB
- No information.
- Endocrine disrupting properties
- No information.
- Additional information
- No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances
- For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
calcium carbonate	471-34-1 207-439-9 -	<50	/	/	/
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	<40	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Repr. 2; H361d STOT RE 1; H372 Aquatic Chronic 3; H412	/	/

phthalic anhydride	85-44-9 201-607-5 607-009-00-4 01-2119457017-41	<1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 3; H335	/	/
Amorphous Silica	112945-52-5 - -	<1	/	/	/
2,2,4,6,6-pentamethylheptane	13475-82-6 236-757-0 - 01-2119490725-29	ca. 0,3	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 1; H410; M = 1 EUH066	/	/
naphtha (petroleum), hydrosulphurized heavy	64742-82-1 265-185-4 649-330-00-2 01-2119490979-12	ca. 0,1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	/	P

## Notes for substances

P	<p>The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.</p> <p>Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.</p>
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## SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures

## General notes

Do not breathe dust/fume/gas/mist/vapors/spray. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Use personal protective equipment. See section 8 for more information.

## Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Seek medical help immediately.

## Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

## Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

## Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.

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

## Following inhalation

Can cause irritation of respiratory system. Coughing, sneezing, nasal discharge, labored breathing. May cause allergic respiratory reaction. Long-term inhalation may cause severe damage to the health.

**Following skin contact**

Irritating to the skin. Itching, redness, pain. May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

**Following eye contact**

Causes severe eye irritation. Redness, tearing, pain.

**Following ingestion**

May cause abdominal discomfort. May cause nausea/vomiting and diarrhea. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

**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**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Alcohol-resistant foam.

Fire extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Full water jet. Do not use water jet as an extinguisher, as this will spread the fire.

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke. Vapours and air can form explosive mixtures.

The vapor/gas is heavier than air and will spread along the ground. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

**5.3 Advice for firefighters****Protective actions**

Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

**Additional information**

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel****Protective equipment**

Use personal protective equipment (Section 8).

**Precautionary measures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Take precautionary measures against static discharges.

**Emergency procedures**

Prevent access to unprotected personnel. No action shall be taken involving any personal risk or without suitable

training. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

#### For emergency responders

During intervention, use personal protective equipment (Section 8).

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### For containment

Stem the spill if this does not pose risks.

#### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Clean contaminated area with plenty of water. Use spark-proof tools. Ventilate the premises. Use only explosion-proof instruments and equipment. Prevent release into the sewer, water, basements or confined areas.

#### OTHER INFORMATION

No information.

### 6.4 Reference to other sections

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Ensure proper grounding of the equipment. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air. In order to avoid the risk of fires and explosions, never use compressed air when handling. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut.

#### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

#### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

#### Other measures

No information.

#### Advice on general occupational hygiene

Do not eat, drink or smoke while working. Do not breathe vapours/mist. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. In case of insufficient ventilation, wear suitable respiratory protection equipment.

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

#### Technical measures and storage conditions

Store in accordance with local regulations. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition - no smoking. Keep in a cool, dry and well ventilated place. Store below 30°C. Keep away from strong oxidising agents. Keep away from peroxides. Keep away from reducing agents.

#### Packaging materials

Store only in original container. Metallic GRP containers.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled

containers.

Storage class

No information.

Further information on storage conditions

No information.

### 7.3 Specific end use(s)

Recommendations

See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure limit values

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
styrene	215	50	425	100	India; source: Ministry of Labour and Employment, Permissible Levels of Certain Chemical substances in work environment	/
Styrene (100-42-5)	430	100	1080	250	/	/
Phthalic anhydride (85-44-9)	4	/	12	/	Sen	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
styrene	Worker	inhalation	long term systemic effects	/	85 mg/m <sup>3</sup>
styrene	Worker	inhalation	short term systemic effects	/	289 mg/m <sup>3</sup>
styrene	Worker	inhalation	short term local effects	/	306 mg/m <sup>3</sup>
styrene	Worker	dermal	long term systemic effects	/	406 mg/kg bw/day
styrene	Consumer	inhalation	long term systemic effects	/	10.2 mg/m <sup>3</sup>
styrene	Consumer	inhalation	short term systemic effects	/	174.25 mg/m <sup>3</sup>
styrene	Consumer	inhalation	short term local effects	/	182.75 mg/m <sup>3</sup>
styrene	Consumer	dermal	long term systemic effects	/	343 mg/kg bw/day
styrene	Consumer	oral	long term systemic effects	/	2.1 mg/kg bw/day

PNEC values

**For product**

No information.

**For components**

Name	Exposure route	Remark	value
styrene	fresh water	/	0.028 mg/L
styrene	marine water	/	0.0028 mg/L
styrene	water treatment plant	microorganisms	5 mg/L
styrene	fresh water sediment	dry weight	0.614 mg/kg
styrene	marine water sediment	dry weight	0.0614 mg/kg
styrene	soil	dry weight	0.2 mg/kg
styrene	water, intermittent release	fresh water	0.04 mg/L

**8.2 Exposure controls****Appropriate engineering control****Substance/mixture related measures to prevent exposure during identified uses**

Do not breathe vapours/aerosols. Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Structural measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

Remove all contaminated clothes immediately and wash them before reuse.

**Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs. The use of adequate technical equipment must always take priority over personal protective equipment.

**Personal protective equipment****Eye and face protection**

Safety glasses with side protection (EN 166). Do not use contact lenses.

**Hand protection**

Protective gloves (EN 374). The penetration time is determined by the protective glove manufacturer and must be observed. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

**Appropriate materials**

Material	Thickness	Penetration Time	Remark
Neoprene	/	/	EN 374
Nitrile	/	/	EN 374
Viton (Fluorinated rubber)	/	/	EN 374
PVA	/	/	EN 374

**Skin protection**

Clothing for protection against chemical risks, with antistatic and fireproof properties. Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012).

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory protection. In case of insufficient ventilation wear mask with filter A (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded. In case of dust formation wear appropriate protective mask - mask with particle filter. Protective masks (EN 136) or half masks (EN 140) with filter AP2 (EN 14387).

**Thermal hazards**

No information.

**Environmental exposure controls****Substance/mixture related measures to prevent exposure**

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

beige

Odour

styren like

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	0.9 — 6.1 vol % 1.1 — 6.8 vol %
Flash point	31 °C
Auto-ignition temperature	490 °C
Decomposition temperature	No information.
pH	No information.
Viscosity	Dynamic: 400 — 700 cP at 22 °C
Solubility	Water: Insoluble Organic solvent: Soluble
Partition coefficient	No information.
Vapour pressure	6 hPa at 20 °C
Density and/or relative density	Density: 1.1 — 1.4 g/cm <sup>3</sup> at 20 °C
Relative vapour density	No information.
Particle characteristics	No information.

### 9.2 OTHER INFORMATION

Explosive properties	No information.
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Other information

Flammability Limits in Air: Upper 6.1 – 6.8%; Lower 0.9 – 1.1%. Soluble in most organic solvents.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Temperature above flashpoint: higher fire/explosion hazard.



**10.2 Chemical stability**

Product is stable under normal conditions of use, recommended handling and storage conditions.

**10.3 Possibility of hazardous reactions**

Vapours and air can form flammable or explosive mixtures. The risk of polymerization.

**10.4 Conditions to avoid**

Protect from heat, direct sunlight, open fire, sparks. Avoid light. Take precautionary measures against static discharges.

**10.5 Incompatible materials**

Strong oxidising agents.  
Peroxide. Reducing agents.

**10.6 Hazardous decomposition products**

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****(a) Acute toxicity**

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
styrene	oral	LD <sub>50</sub>	rat	/	5000 mg/kg	/	/
styrene	dermal	LD <sub>50</sub>	rat	24 h	> 2000 mg/kg bw	OECD 402	/
styrene	inhalation	LC <sub>50</sub>	rat	4 h	11.8 mg/l	/	/
phthalic anhydride	oral	LD <sub>50</sub>	rat	/	1530 mg/kg bw	/	/
phthalic anhydride	dermal	LD <sub>50</sub>	rabbit	/	> 3160 mg/kg bw	/	/
phthalic anhydride	inhalation	LC <sub>50</sub>	rat	4 h	> 2.14 mg/l	/	/
Amorphous Silica	dermal	LD <sub>50</sub>	rabbit	/	> 5000 mg/kg	/	/
Amorphous Silica	inhalation	LC <sub>50</sub>	rat	4 h	> 0.14 mg/l	OECD 403 OECD 403	/
2,2,4,6,6-pentamethylheptane	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg bw	OECD 401	/
2,2,4,6,6-pentamethylheptane	dermal	LD <sub>50</sub>	rabbit	/	≥ 3160 mg/kg bw	/	/
2,2,4,6,6-pentamethylheptane	inhalation	LC <sub>50</sub>	rat	4 h	> 4.95 mg/l	Equivalent to OECD 403 Equivalent to OECD 403	/

**Additional information**

The product is not classified for acute toxicity.

**(b) Skin corrosion/irritation**

For components

Name	Species	Time	result	Method	Remark
styrene	rabbit	/	Irritating.	/	/

phthalic anhydride	rabbit	/	Irritating.	OECD 404	/
Amorphous Silica	rabbit	/	Non-irritant.	OECD 404	/
2,2,4,6,6-pentamethylheptane	rabbit	/	Non-irritant.	Equivalent to OECD 404	/

**Additional information**

Causes skin irritation.

**(c) Serious eye damage/irritation****For components**

Name	Exposure route	Species	Time	result	Method	Remark
styrene	/	rabbit	/	Irritating.	/	/
phthalic anhydride	/	rabbit	/	Irritating to eyes.	Draize test	/
Amorphous Silica	/	rabbit	/	No irritant effect.	OECD 405	/
2,2,4,6,6-pentamethylheptane	/	rabbit	/	No irritant effect.	OECD 405	/

**Additional information**

Causes serious eye damage.

**(d) Respiratory or skin sensitisation****For components**

Name	Exposure route	Species	Time	result	Method	Remark
styrene	-	/	/	Non sensitising.	/	/
phthalic anhydride	dermal	guinea pig	/	Sensitizing.	OECD 406	/
phthalic anhydride	inhalation	guinea pig	/	Sensitizing.	/	/
Amorphous Silica	dermal	/	/	Non sensitising.	/	/
Amorphous Silica	inhalation	/	/	Non sensitising.	/	/
2,2,4,6,6-pentamethylheptane	dermal	guinea pig	/	Negative.	OECD 406	/

**Additional information**

The product is not classified as sensitising.

**(e) (Germ cell) mutagenicity****For components**

Name	Type	Species	Time	result	Method	Remark
styrene	in-vitro mutagenicity	Bacteria	/	Ambiguous.	OECD 471	S.typhimurium G46, TA1530, TA1535, TA100, TA98, TA1538, TA1537
styrene	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Equivocal	OECD 476	Hamster
styrene	in-vitro mutagenicity	/	/	Positive.	OECD 473, 479	Chromosome aberration assay
styrene	in-vivo mutagenicity	mouse	/	Negative.	OECD 474, 486	/
phthalic anhydride	in-vitro mutagenicity	S.typhimurium TA 1535, TA 1537, TA 98, TA 100 and TA102; Escherichia coli WP2 uvrA	/	Negative.	OECD 471	/
phthalic anhydride	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative.	OECD 476	Hamster
phthalic anhydride	in-vitro mutagenicity	hamster	/	Equivocal	OECD 473	Chromosome aberration assay
Amorphous Silica	in-vitro mutagenicity	/	/	Negative.	OECD 471 (Bacterial Reverse Mutation Test)	Ames test
Amorphous Silica	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative.	OECD 476	/

Amorphous Silica	in-vitro mutagenicity	/	/	Negative.	OECD 473	Chromosome aberration assay
Amorphous Silica	in-vivo mutagenicity	rat	/	Negative.	/	/
2,2,4,6,6-pentamethylheptane	in-vitro mutagenicity	S. typhimurium, other: S. typhimurium TA1535, TA1537, TA98, TA100 and TA1538	/	Negative.	Equivalent to OECD 471	/
2,2,4,6,6-pentamethylheptane	in-vitro mutagenicity	Mammalian cells - hamster	/	Negative.	Equivalent to OECD 476	/
2,2,4,6,6-pentamethylheptane	in-vitro mutagenicity	/	/	Negative.	Equivalent to OECD 473	Chromosome aberration assay
2,2,4,6,6-pentamethylheptane	in-vivo mutagenicity	mouse	/	Negative.	Equivalent to OECD 474	/

## (f) Carcinogenicity

## For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
styrene	inhalation	NOAEC	rat	/	$\geq 4.34 \text{ mg/m}^3$ air	negative	OECD 453	/
styrene	inhalation (vapours)	LOAEC	mouse (male/female)	/	0.09 - 0.18 mg/l	Positive	OECD 453	/
styrene	oral	NOAEL	rat	/	$\geq 2000 \text{ mg/kg bw/day}$	positive	/	/
styrene	oral	LOAEL	mouse	/	150 mg/kg bw/day	Positive	/	/
phthalic anhydride	oral	NOAEL	rat	105 weeks	1000 mg/kg bw/day	negative	/	/
phthalic anhydride	oral	NOAEL	mouse (male)	72 weeks	3570 mg/kg bw/day	negative	/	/
phthalic anhydride	oral	NOAEL	mouse (female)	72 weeks	1785 mg/kg bw/day	negative	/	/
Amorphous Silica	oral	NOAEL	rat	/	1800 - 3200 mg/kg bw/day	negative	OECD 453	/

## (g) Reproductive toxicity

## For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
styrene	Effects on fertility	NOAEL/LOAEL	rat	60 days	100 - 200 mg/kg bw/day	Positive.	/	Inhalation
styrene	Effects on fertility	NOAEL/LOAEL	rat	60 days	200 - 400 mg/kg bw/day	Positive.	OECD 422	oral
styrene	Reproductive toxicity	LOAEC (P, F1)	rat	/	2.13 mg/L	Negative.	two-generation study; OECD 416	Inhalation
styrene	Reproductive toxicity	NOAEC (P, F1)	rat	/	0.64 mg/L	Negative.	two-generation study; OECD 416	Inhalation
styrene	Reproductive toxicity	NOAEC (F2)	rat	/	0.21 mg/L	Negative.	two-generation study; OECD 416	Inhalation
styrene	Reproductive toxicity	LOAEC (F2)	rat	70 days	0.64 mg/L	Negative.	two-generation study; OECD 416	Inhalation
styrene	Maternal toxicity + developmental toxicity	NOAEC/LOAEC	rat	50 days	1.08 - 2.15 mg/L	Positive.	/	Inhalation
styrene	Maternal toxicity	LOAEC	rat	/	1.28 mg/L	Positive.	OECD 414	6-15 days; inhalation

styrene	Developmental toxicity	NOAEC	rat	/	≥ 2.56 mg/L	Negative.	OECD 414	6-15 days; inhalation
styrene	Maternal toxicity + developmental toxicity	NOAEC	rabbit	/	2.56 mg/L	Negative.	OECD	6-18 days; inhalation
phthalic anhydride	Reproductive toxicity	NOAEL	mouse (male)	72 weeks	3570 mg/kg bw/day	Negative.	/	oral
phthalic anhydride	Reproductive toxicity	NOAEL	mouse (female)	72 weeks	1785 mg/kg bw/day	Negative.	/	oral
phthalic anhydride	Reproductive toxicity	NOAEL	rat (female)	105 weeks	1000 mg/kg bw/day	Negative.	/	oral
phthalic anhydride	Maternal toxicity	NOAEL	rat	/	1000 mg/kg bw/day	Positive.	/	oral
phthalic anhydride	Teratogenicity	NOAEL	rat	/	1700 mg/kg bw/day	Positive.	/	oral
Amorphous Silica	Reproductive toxicity	NOAEL	rat	/	497 mg/kg bw/day	Negative.	OECD 415	oral
Amorphous Silica	Teratogenicity	NOAEL	rat	/	1350 mg/kg bw/day	Negative.	OECD 414	oral
Amorphous Silica	Maternal toxicity	NOAEL	rat	/	1350 mg/kg bw/day	Negative.	OECD 414	oral
2,2,4,6,6-pentamethylheptane	oral	NOAEL	rat	/	≥ 1000 mg/kg bw/day	Negative.	Equivalent to OECD 422	P/F1
2,2,4,6,6-pentamethylheptane	Developmental toxicity	NOAEL	rat (female)	15 days	≥ 5220 mg/m <sup>3</sup>	Negative.	Equivalent to OECD 414	/

**Summary of evaluation of the CMR properties**  
Suspected of damaging the unborn child.

**(h) STOT-single exposure**

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
phthalic anhydride	inhalation	-	/	/	/	/	/	May cause respiratory irritation.	/	/

**Additional information**

May cause respiratory irritation.

**(i) STOT-repeated exposure**

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
styrene	-	-	/	/	/	ear	/	Causes damage to organs through prolonged or repeated exposure.	/	/
styrene	inhalation	NOAEC	rat (male)	28 days	/	/	3.47 mg/L air	/	/	/
styrene	inhalation	NOAEC	/	28 days	/	/	2.13 mg/L	/	/	ototoxicity
styrene	inhalation	NOAEC	mouse	28 days	/	/	0.181 mg/L	/	OECD 412	/
styrene	inhalation	NOAEC	rat	28 days	/	/	0.688 mg/L	/	OECD 412	/
styrene	inhalation	NOAEC	rat	90 days	/	nose	0.85 mg/L	/	/	/
styrene	inhalation	NOAEC	rat	90 days	/	overall	2.13 mg/L	/	/	/
styrene	oral	NOAEL	rat	/	/	/	1000 mg/kg bw/day	/	/	/
styrene	oral	LOAEL	rat	/	/	/	2000 mg/kg bw/day	/	/	/

styrene	oral	NOAEL	mouse	/	/	/	150 mg/kg bw/day	/	/	/
styrene	oral	LOAEL	mouse	/	/	/	300 mg/kg bw/day	/	/	/
styrene	inhalation	LOAEC	rat	/	/	/	0.21 mg/L	/	OECD 453	/
phthalic anhydride	oral	NOAEL	rat	7 weeks	/	/	1250 mg/kg bw/day	/	/	/
phthalic anhydride	oral	LOAEL	rat	7 weeks	/	/	2500 mg/kg bw/day	/	/	/
phthalic anhydride	oral	NOAEL	rat	105 weeks	/	/	500 mg/kg bw/day	/	/	/
phthalic anhydride	oral	LOAEL	mouse (male/female)	72 weeks	/	/	1717 - 2340 mg/kg bw/day	/	/	/
Amorphous Silica	oral	NOAEL	rat	/	/	/	4000 - 4500 mg/kg/day	/	OECD 408	/
Amorphous Silica	inhalation	NOEC	rat	/	/	/	1.3 mg/m <sup>3</sup>	/	/	/
Amorphous Silica	inhalation	NOEC	rat	90 days	/	/	< 1.3 mg/m <sup>3</sup>	/	OECD 413	/
Amorphous Silica	dermal	NOAEL	rabbit	/	/	/	≥ 10000 mg/kg bw/day	/	/	/
2,2,4,6,6-pentamethylheptane	inhalation	NOAEC	mouse	17 days	/	/	≥ 400 ppm	/	Equivalent to OECD 412	/
2,2,4,6,6-pentamethylheptane	oral	NOAEL	rat	13 weeks	/	/	≥ 1000 mg/kg	/	Equivalent to OECD 408	/
2,2,4,6,6-pentamethylheptane	inhalation	NOAEL	rat	13 weeks	/	/	≥ 1.16 mg/m <sup>3</sup>	/	OECD 413	/
2,2,4,6,6-pentamethylheptane	inhalation	NOAEC	rat	105 weeks	/	/	≥ 400 ppm	/	/	/
2,2,4,6,6-pentamethylheptane	inhalation	NOAEC	rat	105 weeks	/	/	25 ppm	/	Equivalent to OECD 453	/

**Additional information**

Causes damage to organs through prolonged or repeated exposure.

**(j) Aspiration hazard**

No information.

**Additional information**

Due to viscosity, this product does not present an aspiration hazard. Aspiration hazard: Not classified.

**Symptoms related to the physical, chemical and toxicological characteristics**

No information.

**Interactive effects**

No information.

**11.2 Information on other hazards****Endocrine disrupting properties**

No information.

**Other information**

No information.

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

Acute (short-term) toxicity  
For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
styrene	LC <sub>50</sub>	4.9 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	EPA OTS 797.1050 EPA OTS 797.1050	/
styrene	EC <sub>50</sub>	4.7 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
styrene	NOEC	1.9 mg/L	/	crustacea	<i>Daphnia magna</i>	OECD 202	/
styrene	LC <sub>50</sub>	4.02 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	/
styrene	-	500 mg/L	30 min	bacteria	Activated sludge	OECD 209	/
phthalic anhydride	NOEC	32 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201 OECD 201	/
phthalic anhydride	LC <sub>50</sub>	> 99 mg/L	96 h	fish	<i>Oryzias latipes</i>	OECD 203 OECD 203	/
phthalic anhydride	EC <sub>50</sub>	> 1000 mg/L	3 h	microorganisms	Activated sludge	ISO 8192 ISO 8192	/
phthalic anhydride	EC <sub>50</sub>	13 mg/L	16 h	microorganisms	<i>Pseudomonas putida</i>	ISO 10712 ISO 10712	/
phthalic anhydride	EC <sub>50</sub>	731 mg/L	/	Plants	<i>Lactuca sativa</i>	/	/
phthalic anhydride	EC <sub>50</sub>	68 mg/L	72 h	algae	/	/	/
phthalic anhydride	EC <sub>50</sub>	71 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
Amorphous Silica	EC <sub>50</sub>	≥ 1000 mg/L	24 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
Amorphous Silica	LC <sub>50</sub>	> 10000 mg/L	96 h	fish	<i>Brachydanio rerio</i>	OECD 203	/
2,2,4,6,6-pentamethylheptane	EC <sub>50</sub>	> 22.5 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
2,2,4,6,6-pentamethylheptane	EC <sub>50</sub>	> 1.3 mg/L	48 h	crustacea	<i>Daphnia magna</i>	ASTM E729-88 ASTM E729-88	/
2,2,4,6,6-pentamethylheptane	LC <sub>50</sub>	> 2.8 mg/L	96 h	fish	<i>Danio rerio</i>	OECD 203	/

Chronic (long-term) toxicity  
For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
styrene	NOEC	1.01 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
styrene	LOEC	2.06 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
styrene	EC50	1.88 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 203 OECD 203	/
styrene	LC <sub>50</sub>	120 mg/kg soil dw	14 days	earthworms	<i>Eisenia fetida</i>	OECD 207	/
styrene	LOEC	65 mg/kg soil dw	/	earthworms	<i>Eisenia fetida</i>	OECD 207	burrowing time and mean percent weight change
styrene	LOEC	180 mg/kg soil dw	/	earthworms	<i>Eisenia fetida</i>	OECD 207	survival
styrene	NOEC	34 mg/kg soil dw	/	earthworms	<i>Eisenia fetida</i>	OECD 207	mean percent weight change
phthalic anhydride	NOEC	16 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
phthalic anhydride	EC50	42 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211 OECD 211	/

phthalic anhydride	LC <sub>50</sub>	560 mg/l	7 days	fish	<i>Danio rerio</i>	OECD 210 OECD 210	/
phthalic anhydride	LOEC	32 mg/l	60 days	fish	/	/	/
phthalic anhydride	NOEC	10 mg/l	60 days	fish	/	OECD 210 OECD 210	/
2,2,4,6,6-pentamethylheptane	NOEC	0.013 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
2,2,4,6,6-pentamethylheptane	NOELR	0.267 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	QSAR QSAR	/

## 12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
styrene	biodegradability	87 %	20 days	readily biodegradable	Similar to OECD 301D	/
phthalic anhydride	biodegradability	68 %	10 days	readily biodegradable	OECD 301 D	/
phthalic anhydride	biodegradability	74 %	30 days	readily biodegradable	OECD 301 D	/
2,2,4,6,6-pentamethylheptane	biodegradability	14	31 days	Not inherently degradable	EPA OTS 796.3100	/

## 12.3 Bioaccumulative potential

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
styrene	Log Pow	3	/	/	/	/
phthalic anhydride	Log Pow	1.6	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
styrene	BCF	/	74	/	/	/	Calculated value
phthalic anhydride	BCF	/	3.16 - 3.4	/	/	/	Calculated value

## 12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
styrene	Soil	/	352	/	/	Koc
styrene	Soil	log KOC	2.55	/	/	/
phthalic anhydride	Soil	/	31	/	/	Koc

**12.5 Results of PBT and vPvB assessment**

No evaluation.

**12.6 Endocrine disrupting properties**

No information.

**12.7 Other adverse effects**

No information.

**12.8 Additional information****For product**

Harmful to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

**For components****styrene**

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**phthalic anhydride**

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**Amorphous Silica**

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**2,2,4,6,6-pentamethylheptane**

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product / Packaging disposal****Waste chemical**

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

**Waste codes / waste designations according to LoW**

No information.

**Packaging**

Dispose of in accordance with applicable waste disposal regulation. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

**Waste codes / waste designations according to LoW**

No information.

**Waste treatment-relevant information**

No information.





**Sewage disposal-relevant information**

No information.



**Other disposal recommendations**  
No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1866	UN 1866	UN 1866	UN 1866
14.2 UN proper shipping name			
RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3 Transport hazard class(es)			
3	3	3	3
			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (D/E)	Limited quantities 5 L EmS F-E, <u>S-E</u> Flash point 31 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y344 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 10 L Packing Instructions (Pkg Inst) 355 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 L Special provisions A3	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

## SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

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

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

Seveso P5c: FLAMMABLE LIQUIDS.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

Safety data sheet Roofcell Basecoat, G&B (North West) Ltd., date 16.03.2021, version 1.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EW - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

#### List of relevant H phrases

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
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.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.