Revision No. 3





A CRH COMPANY

SAFETY DATA SHEET PolyPlus SF (hardener component part B)

SDS No: HUK12

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

1.1 Product Identifier

Product name PolyPlus (hardener component part B)

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

Identified uses Adhesive

1.3 Details of the supplier of the safety data sheet

Supplier Leviat Limited

The Mille

1000 Great West Road (10th Floor)

Brentford London TW8 9DW

Tel: +44 (0) 20 8735 5200 Fax: +44 (0) 20 8735 5201 Email: sales.helifix.uk@leviat.com

Contact person sales.helifix.uk@leviat.com

1.4 Emergency telephone number

+44 (0) 20 8735 5200 (Mon – Fri 09:00 – 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification

Physical hazards Not classified

Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

Human health May cause skin disorders if contact is repeated or prolonged. The product is irritating

to eyes and skin.

Environmental The product contains a substance which is very toxic to aquatic organisms and

which may cause long-term adverse effects in the aquatic environment.

Physicochemical Not considered to be a significant hazard due to the small quantities used.

2.2. Label elements

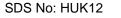
Pictogram



Signal word Warning

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Hazard statements

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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 water.

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

Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advive/attention.
P501 Dispose of contents/container in accordance with national regulations.

Contains BENZOYL PEROXIDE

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.

P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse

P391 Collect spillage.

P411 Store at temperatures not exceeding 25°C

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

BENZOYL PEROXIDE 10-20%

CAS number: 94-36-0 EC number: 202-327-6 REACH registration number: 01-2119511472-50-XXXX

M factor (Acute) = 10

Classification

Org. Perox. B - H241 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Acute 1 - H400

BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR

5-10%

CAS number: 670241-72-2 EC number: 447-010-5 REACH registration number: 01-0000018876-55-XXXX

Classification

Aquatic Chronic 2 - H411

The full text for all Hazard Statements are displayed in Section 16

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort

continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting.

Rinse mouth thoroughly with water. Get medical attention if any discomfort

continues.

Skin contact Remove affected person from source of contamination. Remove contaminated

clothing. Wash skin thoroughly with soap and water. Get medical attention if any

discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if

irritation persists after washing. Show this Safety Data Sheet to the medical

personnel.

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

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation.

Eye contact Irritation of eyes and mucous membranes.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards No specific precautions due to the small quantities handled.

Hazardous combustion products Oxides of carbon.

5.3. Advice for firefighters

Protective actions during

Avoid breathing fire gases or vapours.

firefighting

Special protective equipment

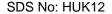
for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate

protective clothing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsWear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. For waste

disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For

waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed

when working with chemical products.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from flammable and combustible materials. Store in closed original

container at temperatures between 5°C and 25°C.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

WEL = Workplace Exposure Limit

BENZOYL PEROXIDE (CAS: 94-36-0)

DNEL Industry - Oral; Long term : 1.6 mg/kg/day

Industry - Dermal; Long term : 6.6 mg/kg/day Industry - Inhalation; Long term : 11.75 mg/m³





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PNEC - Fresh water; 0.000602 mg/l

- Sediment (Freshwater); 0.338 mg/kg - Marine water; 0.0000602 mg/l

- Sediment (Marinewater); 0.0338 mg/kg

- STP; 0.35 mg/l

8.2. Exposure controls Protective equipment







Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact.

Not determined.

Hygiene measures Wash hands at the end of each work shift and before eating, smoking and using the

toilet. DO NOT SMOKE IN WORK AREA!

Respiratory protection No specific recommendations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour Black.

Odour threshold

Odour Characteristic.

pH Not applicable.

Melting point Not applicable.

Initial boiling point and range Not applicable.

Flash point Not applicable.

Evaporation rate Not determined.

Evaporation factor Not determined.

Flammability (solid, gas) Not determined.

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Upper/lower flammability or

explosive limits

Not determined.

Other flammability Not determined.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.5 - 1.6

Bulk density Not applicable.

Solubility(ies) Not determined.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature >50°C

Viscosity > 60 S ISO2431

Explosive propertiesNo information available.

Oxidising properties Not determined.

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Alkalis. Amines. Strong

reducing agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Will

decompose at temperatures exceeding 50°C.

10.3. Possibility of hazardous reactions

Possibilities of hazardous

Will not polymerise.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and

alkalis.

10.5. Incompatible materials

Materials to avoid Strong reducing agents. Acids, non-oxidising. Acids - organic. Alkalis - inorganic.

Alkalis - organic. Amines.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon.

products

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin sensitisation

Skin sensitisation Sensitising.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Route of entry Skin and/or eye contact.

Medical symptoms Skin irritation. Irritation of eyes and mucous membranes.

Medical considerationsNo information available.

Toxicological information on ingredients.

BENZOYL PEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀

mg/kg)

950.0

Species Rat

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classified as to its carcinogenicity to humans.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

BENZOYL PEROXIDE

Acute aquatic toxicity

LE(C)₅₀ $0.01 < L(E)C50 \le 0.1$

M factor (Acute) 10

Acute toxicity – fish LC50, 96 hours: 0.06 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity – aquatic

invertebrates

EC₅₀, 48 hours: 0.11 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 0.07 mg/l, Selenastrum capricornutum

BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR

Acute toxicity – fish LC₅₀, 24 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)

LC₅₀, 48 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)

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LC₅₀, 72 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) EC₅₀, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) EC₁₀₀, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) NOEC, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic

Invertebrates

EC₅₀, 24 hours: > 2.2 mg/l, Daphnia magna EC₅₀, 48 hours: > 2.2 mg/l, Daphnia magna NOEC, 48 hours: > 2.2 mg/l, Daphnia magna

Acute toxicity microorganisms

IC₅₀, 3 hours: > 1000 mg/l, Activated sludge NOEC, 3 hours: > 1000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility

Mobile. The product is partly miscible with water and may spread in the aquatic

environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods Dispose of waste via a licensed waste disposal contractor.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID) 3082

3082 UN No. (IMDG)

UN No. (ICAO) 3082

3082 UN No. (ADN)

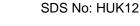
14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. BENZOYL

PEROXIDE

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. BENZOYL

PEROXIDE







SAFETY DATA SHEET PolyPlus SF (hardener component part B)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. BENZOYL

PEROXIDE

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. BENZOYL

PEROXIDE

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group

ICAO packing group

ADN packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F
ADR transport category 3
Emergency Action Code •3Z
Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

Not applicable

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SECTION 15: REGULATORY INFORMATION

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

EU legislation (EU) No 2015/830

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision date 25/04/2022

Revision 3 SDS number HUK12

Hazard statements in full

H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.