SAFETY DATA SHEET
S-FIXX White Filling Powder

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

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

1.1. Product identifier

Product name S-FIXX White Filling Powder

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

Identified uses Filling powder for use with the cyanoacrylate adhesive provided in this kit.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

SFIXX LTD
UNIT 15, OLD WALESWOOD
COLLIERY MANSFIELD ROAD
SHEFFIELD
S26 5PQ
UK - +44 (0) 114 348 1262
INFO@SFIXX.CO.UK

1.4. Emergency telephone number

Emergency telephone +44 (0) 114 348 1262 (MON-FRI/9:00>17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards
Not Classified

Health hazards
Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards
Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC)
Xi; R41, R38. N; R51/53

Human health
Irritating to skin. Risk of serious damage to eyes.

Environmental
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Pictogram


S-FIXX White Filling Powder

Signal word Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with national regulations.

Contains Calcium Oxide

Supplementary precautionary statements

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Iron Oxide **25 - <50%**

CAS number: 1332-37-2 **EC number:** 215-570-8

Substance with National workplace exposure limits.

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	

Aluminium Oxide **10 - <25%**

CAS number: 1344-28-1 **EC number:** 215-691-6

Substance with National workplace exposure limits.

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	

Magnesium Oxide **10 - <25%**

CAS number: 1309-48-4 **EC number:** 215-171-9

Substance with National workplace exposure limits.

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	

S-FIXX White Filling Powder

Zinc Oxide	**10 - <25%**
CAS number: 1314-13-2 **EC number:** 215-222-5 **M factor (Acute) =** 1 **M factor (Chronic) =** 1	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	**Classification (67/548/EEC or 1999/45/EC)** N; R50/53
Magnesium Silicate	**10 - <25%**
CAS number: 1343-88-0 **EC number:** 215-681-1 Substance with National workplace exposure limits.	
Classification Not Classified	**Classification (67/548/EEC or 1999/45/EC)**
Calcium Oxide	**10 - <25%**
CAS number: 1305-78-8 **EC number:** 215-138-9	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335	**Classification (67/548/EEC or 1999/45/EC)** Xi; R41, R37/38
Mica	**5 - <10%**
CAS number: 12001-26-2 **EC number:** — Substance with National workplace exposure limits.	
Classification Not Classified	**Classification (67/548/EEC or 1999/45/EC)**

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if a large quantity has been ingested.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

May cause respiratory system irritation.

Ingestion

May cause discomfort if swallowed.

S-FIXX White Filling Powder

Skin contact

Causes mild skin irritation.

Eye contact

May cause serious eye damage.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards

Not known.

Hazardous combustion products

Irritating fumes may be created.

5.3. Advice for firefighters

Protective actions during firefighting

Product contains environmentally hazardous substance(s) - contain extinguishing water where possible.

Special protective equipment for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid generation and spreading of dust.

6.2. Environmental precautions

Environmental precautions

Avoid discharge to the aquatic environment. Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid generation and spreading of dust. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Reuse or recycle products wherever possible. For waste disposal, see section 13.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet.

S-FIXX White Filling Powder

Provide adequate ventilation. Avoid spilling. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene

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 out of the reach of children. Keep container tightly closed and dry.

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

Iron Oxide

Long-term exposure limit (8-hour TWA): WEL 5 mg/m3 fume
Short-term exposure limit (15-minute): WEL 10 mg/m3 fume
as Fe
(Iron oxide.)

Aluminium Oxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m3 respirable dust

Magnesium Oxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m3 fume and respirable dust

Magnesium Silicate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m3 respirable dust
(Talc.)

Calcium Oxide

Long-term exposure limit (8-hour TWA): WEL 2 mg/m3

Mica

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 total inhalable dust
Long-term exposure limit (8-hour TWA): WEL 0.8 mg/m3 respirable dust

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment


Appropriate engineering controls

Provide adequate ventilation. Provide eyewash station.

Eye/face protection

Wear chemical splash goggles.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove

material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Provide adequate ventilation. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear a suitable dust mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

Environmental exposure controls

Keep container tightly sealed when not in use. Avoid or minimise the creation of any environmental contamination.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Powder.

Colour

Black.

Odour

Odourless.

Odour threshold

Not relevant.

pH

Not determined.

Melting point

Not determined.

Initial boiling point and range

Not relevant.

Flash point

Not relevant.

Evaporation rate

Not relevant.

Evaporation factor

Not relevant.

Flammability (solid, gas)

Not determined.

Upper/lower flammability or explosive limits

Not relevant.

Vapour pressure

Not relevant.

Vapour density

Not relevant.

Relative density

1.5 - 2.5 g/cm3

Solubility(ies)

Slightly soluble in water.

S-FIXX White Filling Powder

Partition coefficient
Not determined.

Auto-ignition temperature
Not relevant.

Decomposition Temperature
Not determined.

Viscosity
Not relevant.

Explosive properties
Not considered to be explosive.

Explosive under the influence of a flame
Not considered to be explosive.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information
None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water. Acids.

10.2. Chemical stability

Stability
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid
Acids. Water, moisture.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Irritating fumes may be created.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50)
Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD50)
Based on available data the classification criteria are not met.

Acute toxicity - inhalation

S-FIXX White Filling Powder

Notes (inhalation LC50)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Irritating. Skin Irrit. 2 - H315

Serious eye damage/irritation

May cause serious eye damage. Eye Dam. 1 - H318

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

Toxicological information on ingredients.

Iron Oxide

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

10,000.0

Species

Rat

Notes (oral LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE oral (mg/kg)

10,000.0

S-FIXX White Filling Powder

Acute toxicity - dermal

Notes (dermal LD50)

Based on available data the classification criteria are not met. REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC50)

Based on available data the classification criteria are not met. REACH dossier information.

Skin corrosion/irritation

Animal data

Dose: 500mg, 4 hours, Rabbit Oedema score: No oedema (0). Erythema/eschar score: No erythema (0). Based on available data the classification criteria are not met. REACH dossier information.

Serious eye damage/irritation

Based on available data the classification criteria are not met. REACH dossier information.

Respiratory sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Skin sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. Chromosome aberration: Negative. Based on available data the classification criteria are not met. REACH dossier information. Estimated value.

Genotoxicity - in vivo

Based on available data the classification criteria are not met. REACH dossier information.

Carcinogenicity

Dose level: <40 mg/kg/day, Combined, Rat Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity - development

Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

NOAEC not identified , Inhalation, Rat Based on available data the classification criteria are not met. REACH dossier information.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Aluminium Oxide

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

15,900.0

S-FIXX White Filling Powder

Species

Rat

Notes (oral LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE oral (mg/kg)

15,900.0

Acute toxicity - dermal

Notes (dermal LD50)

Based on available data the classification criteria are not met. REACH dossier information.

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)

7.6

Species

Rat

Notes (inhalation LC50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE inhalation (dusts/mists mg/l)

7.6

Skin corrosion/irritation

Animal data

Dose: 0.5g, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Based on available data the classification criteria are not met. REACH dossier information.

Serious eye damage/irritation

Based on available data the classification criteria are not met. REACH dossier information.

Respiratory sensitisation

Mouse: Not sensitising. Based on available data the classification criteria are not met. REACH dossier information.

Skin sensitisation

Draize test - Guinea pig: Not sensitising. Based on available data the classification criteria are not met. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro

Data presented applicable to nanoparticle form of substance. Inconclusive data. REACH dossier information.

Genotoxicity - in vivo

Data presented applicable to nanoparticle form of substance. Inconclusive data. REACH dossier information.

Carcinogenicity

Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 200 mg/kg, Oral, Rat Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - single exposure

SUPA-FIX White Filling Powder

STOT - single exposure

Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Dose level: 80 mmol/L, Oral, Rat Based on available data the classification criteria are not met. REACH dossier information.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Magnesium Oxide

Toxicological effects

Based on available data the classification criteria are not met.

Zinc Oxide

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

5,000.0

Species

Rat

Notes (oral LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE oral (mg/kg)

5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

2001.0

Species

Rat

Notes (dermal LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE dermal (mg/kg)

2001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)

5700.0

Species

Rat

Notes (inhalation LC50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE inhalation (dusts/mists mg/l)

5700.0

Skin corrosion/irritation

Animal data

Dose: 20%w/v, 5 days, Guinea pig Not irritating. Based on available data the classification criteria are not met. REACH dossier information.

Serious eye damage/irritation

Based on available data the classification criteria are not met. REACH dossier information.

S-FIXX White Filling Powder

Respiratory sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Skin sensitisation

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. Based on available data the classification criteria are not met. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. Based on available data the classification criteria are not met. REACH dossier information.

Genotoxicity - in vivo

Based on available data the classification criteria are not met. REACH dossier information.

Carcinogenicity

Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility

Two-generation study - NOAEL 7.5 mg/kg/day, Oral, Rat F1 Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity - development

Maternal toxicity: - NOAEC: 1.5 mg/m³, Inhalation, Rat Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

NOAEL 1.5 mg/m³, Inhalation, Rat Based on available data the classification criteria are not met. REACH dossier information.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Magnesium Silicate

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

5,000.0

Species

Rat

Notes (oral LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE oral (mg/kg)

5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

2001.0

Species

Rabbit

Notes (dermal LD50)

S-FIXX White Filling Powder

Based on available data the classification criteria are not met. REACH dossier information.

ATE dermal (mg/kg)

2001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)

20.0

Species

Rat

Notes (inhalation LC50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE inhalation (dusts/mists mg/l)

20.0

Skin corrosion/irritation

Animal data

Dose: 0.5g, 24 hours, Rabbit Primary dermal irritation index: 0.8 Based on available data the classification criteria are not met. REACH dossier information.

Serious eye damage/irritation

Based on available data the classification criteria are not met. REACH dossier information.

Respiratory sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Skin sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. Chromosome aberration: Negative. Based on available data the classification criteria are not met. REACH dossier information. Estimated value.

Genotoxicity - in vivo

Based on available data the classification criteria are not met. REACH dossier information.

Carcinogenicity

NOAEL 5 %, (dietary intake), Oral, Rat Based on available data the classification criteria are not met. REACH dossier information. Estimated value.

Reproductive toxicity

Reproductive toxicity - fertility

One-generation study - NOAEL 497 mg/kg/day, Oral, Rat P Based on available data the classification criteria are not met. REACH dossier information. Estimated value.

Reproductive toxicity - development

Maternal toxicity: - NOAEL: 1350 mg/kg/day, Oral, Rat Based on available data the classification criteria are not met. REACH dossier information. Estimated value.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met. REACH dossier information.

S-FIXX White Filling Powder

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Calcium Oxide

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

7,430.0

Species

Rat

Notes (oral LD50)

Based on available data the classification criteria are not met. REACH dossier information.

ATE oral (mg/kg)

7,430.0

Acute toxicity - dermal

Notes (dermal LD50)

Based on available data the classification criteria are not met. REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC50)

Based on available data the classification criteria are not met. REACH dossier information.

Skin corrosion/irritation

Human skin model test

Alkaline nature of chemical can cause skin irritation upon prolonged dermal exposure. Skin Irrit. 2 - H315 REACH dossier information.

Serious eye damage/irritation

Corneal damage. Eye Dam. 1 - H318 REACH dossier information. Estimated value.

Respiratory sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Skin sensitisation

Based on available data the classification criteria are not met. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. DNA damage and/or repair: Negative. Based on available data the classification criteria are not met. REACH dossier information.

Genotoxicity - in vivo

This substance has no evidence of mutagenic properties. Based on available data the classification criteria are not met. REACH dossier information.

Carcinogenicity

Dose level: >5 %, aqueous solution, Oral, Rat Based on available data the classification criteria are not met. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - development

Developmental toxicity: - Dose level:: >440 mg/kg/day, aqueous solution, Oral, Mouse Based on available data the classification criteria are not met. REACH dossier information.

Specific target organ toxicity - single exposure

S-FIXX White Filling Powder

STOT - single exposure

STOT SE 3 - H335 May cause respiratory irritation. REACH dossier information.

Target organs

Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met. REACH dossier information.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Mica

Toxicological effects

Based on available data the classification criteria are not met.

SECTION 12: Ecological Information

Ecological information on ingredients.

Magnesium Oxide

Ecotoxicity

Based on available data the classification criteria are not met.

Mica

Ecotoxicity

Based on available data the classification criteria are not met.

12.1. Toxicity

Toxic to aquatic life with long lasting effects. Aquatic Chronic 2 - H411

S-FIXX White Filling Powder

Ecological information on ingredients.

Iron Oxide

Acute toxicity - fish

LC_0, 96 hours: >50000 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: >100 mg/l, Daphnia magna REACH dossier information.

Aluminium Oxide

Acute toxicity - fish

LC_{50}, 96 hour: 19.3 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information. Estimated value.

Zinc Oxide

Acute aquatic toxicity

$LE(C)_{50}$

0.1 < L(E)C50 ≤ 1

M factor (Acute)

1

Acute toxicity - fish

NOEC, 32 hours: 0.54 mg/l, Brachydanio rerio (Zebra Fish) LC_{50}, 96 hours: 0.33 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 1.7 mg/l, Daphnia magna REACH dossier information.

Chronic aquatic toxicity

M factor (Chronic)

1

Chronic toxicity - aquatic invertebrates

NOEC, 10 days: 0.297 mg/l, Daphnia magna REACH dossier information.

Magnesium Silicate

Acute toxicity - fish

LC_0, 96 hours: 10000 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information. Estimated value.

Acute toxicity - aquatic invertebrates

EC_0, 24 hours: 1000 mg/l, Daphnia magna REACH dossier information.

Calcium Oxide

Acute toxicity - fish

LC_{50}, 96 hours: >1070 mg/l, Cyprinus carpio (Common carp) REACH dossier information.

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 159.6 mg/l, Freshwater invertebrates REACH dossier information. Estimated value.

12.2. Persistence and degradability

Persistence and degradability

No data available.

S-FIXX White Filling Powder

Ecological information on ingredients.

Iron Oxide

Persistence and degradability
Substance is inorganic.

Aluminium Oxide

Persistence and degradability
Substance is inorganic.

Zinc Oxide

Persistence and degradability
Substance is inorganic.

Magnesium Silicate

Persistence and degradability
Substance is inorganic.

Calcium Oxide

Persistence and degradability
Substance is inorganic.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient
Not determined.

Ecological information on ingredients.

Iron Oxide

No data available on bioaccumulation.

Aluminium Oxide

No data available on bioaccumulation.

Zinc Oxide

BCF: < 3.3, REACH dossier information. Estimated value.

Magnesium Silicate

No data available on bioaccumulation.

Calcium Oxide

Substance is inorganic.

12.4. Mobility in soil

Mobility
No data available.

S-FIXX White Filling Powder

Ecological information on ingredients.

Iron Oxide

Mobility

Insoluble in water.

Aluminium Oxide

Mobility

Insoluble in water.

Zinc Oxide

Mobility

Slightly soluble in water.

Magnesium Silicate

Mobility

Soluble in water.

Calcium Oxide

Mobility

Soluble in water.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

Iron Oxide

This substance is not classified as PBT or vPvB according to current EU criteria.

Aluminium Oxide

This substance is not classified as PBT or vPvB according to current EU criteria.

Zinc Oxide

This substance is not classified as PBT or vPvB according to current EU criteria.

Magnesium Silicate

This substance is not classified as PBT or vPvB according to current EU criteria.

Calcium Oxide

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

None known.

S-FIXX White Filling Powder

Ecological information on ingredients.

Iron Oxide

None known.

Aluminium Oxide

None known.

Zinc Oxide

None known.

Magnesium Silicate

None known.

Calcium Oxide

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

This material and its container must be disposed of in a safe way.

Disposal methods

Do not empty into drains. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077
UN No. (ADN)	3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
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

S-FIXX White Filling Powder

IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Yes.

14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

National regulations

EH40/2005 Workplace exposure limits. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation

Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) 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) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008

Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Aquatic Chronic 2 - H411: Calculation method.

Revision comments

Classification according to CLP Annex I.

Revision date	27/06/2014
Revision	1.2
Supersedes date	17/04/2014
SDS number	492

Risk phrases in full

S-FIXX White Filling Powder

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.