SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and its amendments

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

1.1. Product identifier

Product name: **AXFLOC AF 1308 PAS**

Type of product: Mixture.

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

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

1.3. Details of the supplier of the safety data sheet

Company: Axchem UK
Axchem House, Unit E3
Commercial Road Tower Business Park, Darwen BB3 0FJ
United Kingdom

Telephone: 0845 301 6710

Telefax: -

E-mail address: info@axchem.co.uk

1.4. Emergency telephone number

24-hour emergency number: 0845 301 6710

National Poison Information Service: NHS Direct: 0845 4647 or 111 (24/24, 7/7); Scotland: NHS 24 - 08454 24 24 24 (24/24, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008:

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008:

Hazard pictogram(s): None.

Signal word: None.

Hazard statement(s):	None.
Precautionary statement(s):	None.
Additional elements:	EUH210 - Safety data sheet available on request

2.3. Other hazards

Dust can form an explosive mixture in air.

PBT and vPvB assessment:
Not PBT or vPvB according to the criteria of Annex XIII of REACH.

For explanation of abbreviations see Section 16.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable, this product is a mixture.

3.2. Mixtures

Hazardous components

Silica, amorphous, fumed, crystalline-free

Concentration/ -range:	< 5%
EC-No.:	231-545-4
REACH Registration Number:	01-2119379499-16-XXXX
Classification according to Regulation (EC) No.1272/2008:	Not classified as hazardous but subject to occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air. No hazards which require special first aid measures.

Skin contact:
Wash off with plenty of water. Get medical attention if irritation develops and persists.

Eye contact:
Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion:
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.

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

Powder can cause localised skin irritation in folds of the skin or under tight clothing. Mechanical irritation of the eyes is possible.

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

None reasonably foreseeable.

Other information:
None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water spray. Foam. Carbon dioxide (CO2). Dry powder.

Unsuitable extinguishing media:
None known.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:
Carbon oxides (COx).

5.3. Advice for firefighters

Protective measures:
Wear self-contained breathing apparatus and protective suit. The pressure in sealed containers can increase under the influence of heat.

Other information:
Cool closed containers exposed to fire with water spray. Potential dust explosion hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:
The product when wet renders surfaces extremely slippery. Avoid contact with eyes. Avoid breathing dust. Remove all sources of ignition. Avoid dust formation in confined areas.

Protective equipment:
Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:
Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

6.2. Environmental precautions

As with all chemical products, do not flush into surface water. The product should not be allowed to enter drains, water courses or the soil.

6.3. Methods and material for containment and cleaning up

Non-sparking tools should be used.

Small spills:
Do not flush with water.Clean up promptly by sweeping or vacuum.

Large spills:
Do not flush with water. Clean up promptly by scoop or vacuum.

Residues:
After cleaning, flush away traces with water.

6.4. Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Use only explosion-proof equipment. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible with strong acids and bases. Incompatible with oxidizing agents.

7.3. Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits:

Silica, amorphous, fumed, crystalline-free
6 mg/m^3 (8 hours) (inhalable)
2.4 mg/m^3 (8 hours) (respirable)

Derived No and Minimum Effect Levels (DNELs/DMELs)

Silica, amorphous, fumed, crystalline-free

Workers:

Long-term systemic effects:

Inhalation	4 mg/m^3

Predicted no-effect concentrations (PNEC)

Silica, amorphous, fumed, crystalline-free

Oral (secondary poisoning): The product is not expected to bioaccumulate.

8.2. Exposure controls

Appropriate engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts. Ensure adequate ventilation, especially in confined areas. Use explosion-proof ventilation equipment. Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual protection measures, such as personal protective equipment:

a) Eye/face protection:
Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

b) Skin protection:
i) Hand protection: PVC or other plastic material gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.
ii) Other: Protective suit. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

c) Respiratory protection:
No personal respiratory protective equipment normally required. Dust safety masks recommended where working powder concentration is more than 10 mg/m^3. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

d) Additional advice:
Wash hands before breaks and at the end of workday. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance:	Whitish powder.
b) Odour:	Ammoniacal.
c) Odour Threshold:	No data available.
d) pH:	No data available.
e) Melting point/freezing point:	No data available.
f) Initial boiling point and boiling range:	No data available.

g) Flash point:	No data available.
h) Evaporation rate:	No data available.
i) Flammability (solid, gas):	Not flammable.
j) Upper/lower flammability or explosive limits:	No data available.
k) Vapour pressure:	No data available.
l) Vapour density:	No data available.
m) Relative density:	No data available.
n) Solubility(ies):	Soluble in water.
o) Partition coefficient:	No data available.
p) Autoignition temperature:	No data available.
q) Decomposition temperature:	No data available.
r) Viscosity:	See Technical Bulletin.
s) Explosive properties:	Not expected to be explosive based on the chemical structure. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
t) Oxidizing properties:	Not expected to be oxidising based on the chemical structure.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Powdered material may form explosive dust-air mixtures.

10.4. Conditions to avoid

Avoid extremes of temperature. Protect from frost, heat and sunlight. Take precautionary measures against static discharges. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce: Carbon oxides (COx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity:	LD50/oral/rat > 4000 mg/kg
Acute dermal toxicity:	LD50/dermal/rabbit > 5000 mg/kg
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating.
Serious eye damage/eye irritation:	Moderate eye irritation due to effects all powders have on conjunctivae.
Respiratory/skin sensitisation:	Not sensitizing.
Mutagenicity:	Did not show mutagenic effects in animal experiments.
Carcinogenicity:	Did not show carcinogenic effects in animal experiments.
Reproductive toxicity:	Not toxic for reproduction.
STOT - Single exposure:	No known effects.
STOT - Repeated exposure:	No known effect.
Aspiration hazard:	No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

Silica, amorphous, fumed, crystalline-free

Acute oral toxicity:	LD50/oral/rat > 5000 mg/kg (OECD 401)
Acute dermal toxicity:	LD50/dermal/rabbit > 5000 mg/kg
Acute inhalation toxicity:	LC0/inhalation/4 hours/rat >= 2.08 mg/L (dust) (EPA OPPTS 870.1300) LC0/inhalation/4 hours/rat >= 5.01 mg/L (aerosol / mist) (OECD 436)
Skin corrosion/irritation:	Not irritating. (OECD 404)
Serious eye damage/eye irritation:	Not irritating. (OECD 405)
Respiratory/skin sensitisation:	Did not cause allergic skin reactions when tested in humans.

Mutagenicity:	Negative in the Ames Test (OECD 471). Negative in the In Vitro Mammalian Chromosome Aberration Test (OECD 473). Negative in the In vitro Mammalian Cell Gene Mutation Test (OECD 476).
Carcinogenicity:	Based on available data, product is not expected to be carcinogenic. Carcinogenicity study in rats (OECD 451): Negative. Carcinogenicity study in rat (OECD 453): NOAEL = 1800 - 3000 mg/kg/day
Reproductive toxicity:	Based on available data, product is not expected to be toxic for reproduction. NOAEL/rat = 497 mg/kg/day (OECD 415) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Maternal toxicity/rat = 1350 mg/kg/day - NOAEL/Developmental toxicity/rat = 1350 mg/kg/day
STOT - Single exposure:	No known effects.
STOT - Repeated exposure:	Based on available data, product is not expected to demonstrate chronic toxic effects. NOAEL/oral/rat/90 days = 7950 - 8980 mg/kg/day (OECD 408)
Aspiration hazard:	No known effects.

SECTION 12: Ecological information

12.1. Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LC50/Pimephales promelas/96 hours > 1000 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100 mg/L
Acute toxicity to algae:	no data available.
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	EC50/activated sludge/16 hours > 5000 mg/L
Effects on terrestrial organisms:	no data available.
Sediment toxicity:	No data available.

Relevant information on the hazardous components:

Silica, amorphous, fumed, crystalline-free

Acute toxicity to fish:	LC0/Danio rerio/96 hours = 10000 mg/L (OECD 203)
Acute toxicity to invertebrates:	EC0/Daphnia magna/24 hours = 1000 mg/L (OECD 202)

Acute toxicity to algae: NOEC/Desmodesmus subspicatus/72 hours = 10000 mg/L (OECD 201) (Based on results obtained from tests on analogous products)

Chronic toxicity to fish: No data available.

Chronic toxicity to invertebrates: No data available.

Toxicity to microorganisms: No data available.

Effects on terrestrial organisms: no data available.

Sediment toxicity: No data available.

12.2. Persistence and degradability

Information on the product as supplied:

Degradation: Not readily biodegradable. < 20% / 28 days (OECD 301 B)

Hydrolysis: No data available.

Photolysis: No data available.

Relevant information on the hazardous components:

Silica, amorphous, fumed, crystalline-free

Degradation: Not relevant (inorganic).

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

12.3. Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow): No data available.

Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

Silica, amorphous, fumed, crystalline-free

Partition co-efficient (Log Pow): < 1

Bioconcentration factor (BCF): No data available.

12.4. Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

Silica, amorphous, fumed, crystalline-free

Koc: No data available.

12.5. Results of PBT and vPvB assessment

PBT assessment:
Not PBT according to the criteria of Annex XIII of REACH.

vPvB assessment:
Not vPvB according to the criteria of Annex XIII of REACH.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local and national regulations.

Recycling:

In accordance with local and national regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information

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

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

15.2. Chemical safety assessment

A Chemical Safety Assessment for this product has been carried out by the person responsible for producing this Safety Data Sheet. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well any as any resulting Risk Reduction Measures.

SECTION 16: Other information

This data sheet contains changes from the previous version in section(s):

SECTION 5. Fire-fighting measures, SECTION 6. Accidental release measures, SECTION 7. Handling and storage, SECTION 8. Exposure controls/personal protection, SECTION 15. Regulatory information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Acronyms
PBT = persistent, bioaccumulative and toxic
STOT = Specific target organ toxicity
vPvB = very persistent and very bioaccumulative

Training advice:

Do not handle until all safety precautions have been read and understood.

This SDS was prepared in accordance with the following:

Regulation (EC) N°1907/2006, as amended
Regulation (EC) N°1272/2008, as amended

Version: 20.01.a

SDMS005

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

ANNEX(ES)

This product is not hazardous as supplied and/or does not contain hazardous components:

• which require REACH registration; or,
• which demonstrate relevant effects which would require a chemical safety assessment; or,
• which are present at concentrations above their cut-off value.

Therefore, according to Regulation (EC) No 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.