SAF™
Super Absorbent Fibre

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name	Super Absorbent Fibre, SAF™
Chemistry	Crosslinked Acrylate Copolymer, partially neutralised to the Sodium Salt
CAS No.	117675 – 55 – 5
Manufacturer	Technical Absorbents Limited 1 Moody Lane Great Coates Grimsby DN31 2SS United Kingdom
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Emergency Telephone	+44(0) 1472 245200 (office hours only)
Product use	As a super absorbent

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 Not classified as hazardous to human health or the environment.	
Eyes	May cause some eye irritation which should cease on removal of product
Skin	Not a skin irritant or sensitiser
Ingestion	Material is highly absorbent
Inhalation	Fibrous form of the product precludes formation of dust. However, mechanical processing of the fibre may create fly (small airborne lengths of fibre) and care should be taken to avoid build up.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Description	Cross-linked acrylate copolymer partially neutralised to the sodium salt
Synonyms	Oasis Fibre, Oasis Super Absorbent Fibre, Bell Oasis
CAS No.	117675 – 55 – 5

SECTION 4 – FIRST AID MEASURES

Eye contact	As with any foreign object, flush with water for 15 minutes. If pain or irritation persists, obtain medical advice
Skin contact	Wash with soap and water. In case of irritation, obtain medical advice
Ingestion	Wash out mouth with water. Do not swallow. Do not give emetic. Rest and reassure the patient and obtain medical advice immediately
Inhalation	Remove any material from the mouth and free the airway. Remove the patient to fresh air and maintain observation. If breathing has stopped, apply artificial respiration. Obtain medical advice immediately

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide, water spray, dry powder, foam
Further information	Product can absorb up to 200 times its own weight in water. Product becomes slippery when wet.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Environmental precautions	Fibre is easily wind-borne
Clean up methods	Do not attempt to wash away large spillage. Spills are best handled when dry. Vacuum or sweep up and remove for disposal in accordance with information provided in Section 13. Trace residues may be washed away with water.

SECTION 7 – HANDLING AND STORAGE

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing dust if generated by processing.
Storage	Store unopened in original packaging. Avoid wet, damp or humid conditions.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	
There are no Community workplace exposure limits for acrylic acid polymers (neutralised, crosslinked). MAK/BAT value (1999): • polyacrylic acid (neutralised, crosslinked) 50µm^{-3} respirable fraction reaching alveoli (*NB quoted value taken from 3rd party source*) Recommended industrial hygiene guideline: • Mechanical processing of fibre may create dust. If dust is generated personal exposure to dust should be kept below the safe (no effect level) for super absorbent dusts of 0.05mg/m^3 of respirable dust (particle size <10µm).	
Occupational exposure controls	
Engineering measures	Local exhaust ventilation should be employed to control airborne levels of fly, if process generates dust
Respiratory protection	Dust mask required if dust is being created
Hand protection	PVC/rubber gloves recommended
Eye protection	Safety glasses or goggles when handling in bulk recommended
Skin protection	Overalls recommended
Hygiene measures	Do not eat, drink or smoke whilst handling the product Wash hands after use Remove contaminated clothing immediately and launder before reuse
Environmental exposure controls	
No specific control measures required	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid white fibre
Odour	None
pH	~5
Boiling point	N/A
Flash point (closed cup)	Not exhibited
Flammability	Non flammable
Explosive properties	N/A
Oxidising properties	N/A
Relative density	Not known
Solubility	Insoluble, but swells to form a gel in water
Viscosity	N/A

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable and unreactive
Conditions to avoid	Avoid wet and humid conditions as material absorbs water and moisture
Hazardous decomposition products	Thermal decomposition or combustion may produce oxides of carbon and various hydrocarbons which may be irritating or harmful

SECTION 11 – TOXICOLOGICAL INFORMATION

SAF® (DRY)	
Acute oral toxicity	Low order of acute toxicity LD50 rat >2000mg/kg
Eye irritation	Practically non irritant
Mutagenicity	No mutagenic activity found (Salmonella typhimurium)
SAF® (DRY AND WATER SWOLLEN):	
Skin irritation	No evidence of skin irritancy (rabbit abraded skin)
Sensitisation	No evidence of delayed contact hypersensitivity (guinea pig)

SECTION 12 – ECOLOGICAL INFORMATION

No specific data

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, national and European regulations.
Raw material is classed as non-hazardous for waste disposal purposes.
Packaging material is classed as non-hazardous for waste disposal purposes.
In the UK waste material and packaging must be sent for recycling, recovery or disposal to a facility operated in accordance with the Environmental Permitting (England and Wales) Regulations 2007.

SECTION 14 – TRANSPORT INFORMATION

No special precautions required. Not a transport hazard.

SECTION 15 – REGULATORY INFORMATION

Label	Not a dangerous substance or preparation
Symbol	N/A
Risk phrases	N/A
Safety phrases	N/A
General nature of risk	Non-hazardous

SECTION 16 – OTHER INFORMATION

To the best of our knowledge, the information contained in this Safety Data Sheet is correct at the date of its publication. Technical Absorbents Limited does not assume any liability whatsoever for the accuracy or completeness of the information contained herein.

The information is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Final determination of suitability of any material is the sole responsibility of the user. Provided our products are handled and used in accordance with the advice given they should present no risk to the health and safety of the user or the environment.