

Issue Date: February 2007

Compilation and completion according to Directive 91/155/EEC

1 IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING

Product Information:

PRODUCT NAME: **APF** (Active Poly Flocc)

Information about the Manufacturer/Supplier:

Dryden Aqua Ltd
Butlerfield
Bonnyrigg
Edinburgh EH19 3JQ

Telephone: 018758 22229

Fax: 018758 22222

2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature: Blend of inorganic and organic coagulants and flocculants - none classified as being hazardous.

3 HAZARD IDENTIFICATION

Human health hazard: Irritating to eyes and skin

4 FIRST AID MEASURES

Eye Contact: Wash with copious amounts of water. Obtain medical attention if redness or soreness continues.

Skin Contact: Wash with copious amounts of water. Remove contaminated clothing. Obtain medical attention if blistering occurs or redness persists.

Inhalation: Remove from contaminated area. Obtain medical attention immediately.

Ingestion: Wash out mouth with water. Give plenty of water or milk to drink. Do not induce vomiting. Seek medical advice.

5 FIREFIGHTING MEASURES

Extinguishing media: For a small fire, use dry chemical powder. For a large fire use water spray, fog or foam.

Fire extinguishing agents to avoid: Do not use water jet.

Hazardous thermal decomposition: Combustion will generate toxic and acidic fumes.

Special fire fighting precautions: Wear self-contained breathing apparatus.

6 **ACCIDENTAL RELEASE MEASURES**

Personal precautions: Wear appropriate protective clothing.
 Methods of cleaning up: Small amounts can be washed away with water. Large spillages should be contained, soaked up with sand, sawdust etc, and scraped up for disposal. Refer also to Section 13.
 Environmental precautions: Advise authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

7 **HANDLING AND STORAGE**

Handling: Ensure good ventilation of workplace. Eyewash facilities should be provided in areas where accidental exposure is foreseeable. Wear protective clothing. Use normal hygiene and housekeeping practices.
 Storage: Containers should be kept tightly sealed. Temperatures should be controlled between 0 and 35°C.
 Storage Materials: Avoid uncoated metal containers.

8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Special engineering measures required for exposure control: None other than those given in Section 7.
 Personal protection: - Protection of hands: - PVC or rubber gloves
 Protection of eyes: - Chemical eye goggles/face shield
 Protection of skin: - Protective overalls, hard hat, PVC or rubber boots.

9 **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid
 Odour: None
 pH: 2 to 3
 Boiling point: 102°C
 Freezing point: Less than -3°C
 Flash point: N.A.
 Density: 1.18 - 1.22
 Solubility in water: Infinite solubility in water.
 Viscosity: 60 - 100 cps @ 25°C

10 **STABILITY AND REACTIVITY**

Stability: Stable at normal temperatures and pressures. No hazardous polymerisation occurs.
 Materials to avoid: Oxidising agents, acids, alkalis and most metals.
 Decomposition Products: Combustion will generate toxic fumes.

11 **TOXICOLOGICAL INFORMATION**

Effect of substances:

- On Eyes: - Causes an irritation
 On Skin: - Causes an irritation.
 By Skin Absorption: - Repeated skin exposure may cause dermatitis
 By ingestion: - Irritation of mucous membranes brought into direct contact.
 When inhaled: - Product does not fume. However, during a compressed air discharge from a road tanker some product may be entrained as small droplets in the vented air. This can cause irritation to the respiratory system.

12 **ECOLOGICAL INFORMATION**

13 **DISPOSAL CONSIDERATIONS**

- Spillages: - See Accidental release Measures (Section 6)
 Contaminated sand etc: - Must be disposed of by special means e.g. suitable incineration in accordance with local regulations. Consult a licensed waste disposal contractor.

14 **TRANSPORT INFORMATION**

- UN No: 3264
 Class: 8
 Packaging group: - III
 Label: CORROSIVE

15 **REGULATORY INFORMATION**

This product is classified according to EEC Directives and the U.K. C.H.I.P. Regulations SI 1993 No 1746 and amendments.

Code letter and hazard identification of product: - Xi - Irritant.

Risk phrases: - 36/38 -Irritating to Eyes and Skin

Safety phrases: - S1/2: Keep locked up and out of reach of children
 S26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
 S28: After contact with skin, wash immediately with plenty of water.

16 **OTHER INFORMATION**

Date of issue: February 12, 2007
 Version: 1
 Prepared by: Howard Dryden

The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. Provided our products are handled and used in accordance with the advice given, they should offer no hazard to health and safety.

Glossary of Terms and Abbreviations Used in Arkem Safety Data Sheets

1. Authorities & Bodies.

EEC:	European Economic Community
ETAD:	Ecological & Toxicological Association of the Dyestuffs Manufacturing Industry
HSE:	Health & Safety Executive
ISO:	International Organisation for Standardisation
NIOSH:	National Institute for Occupational Safety & Health (USA)
OSHA:	Occupational Safety & Health Administration (USA)
DOT:	Department of Transportation (USA)
OECD:	Organisation for Economic Co-operation & Development

2. Ecology & Disposal

COD:	Chemical Oxygen Demand	TOC:	Total organic Carbon
BOD:	Biochemical Oxygen Demand	OECD:	(See Sec 1) Reference to Test Methods
AOX:	Absorbable Organic Halogens	CO ₂ :	Carbon Dioxide Production
DOC:	Dissolved Organic Carbon		
WGK:	0-3; West German Classification of hazard to Water, based on acute toxicity to mammals, fish and bacteria, and biological eliminability 0 = no hazard, 1 = slight hazard, 2 hazardous, 3 = severe hazard		

3. Inventories & Lists

AICS:	Australian Inventory of Chemical Substances
DSL:	Canadian dangerous Substances List
EINECS:	European Inventory of Existing Chemical Substances
ELINCS:	European List of Notified Chemical Substances
MITI (LIST):	Japanese Inventory of Chemical Substances
TSCA (LIST):	American register of chemicals according to Toxic Substances Control Act

4. Regulations - Use, Supply and Storage

UK CPL Regulations, all based on EEC Directives

CHIP:	Chemicals (Hazard Information & Packaging) Regulations SI 1993 No 1746 & amendments
CPL:	The Classification, Packaging and labelling of Dangerous Substances Regulations 1984 SI No 1244 & amendments
COSHH:	The Control of Substances Hazardous to Health Regulations 1988 SI No 1657 & amendments
FEPA:	The Food and Environmental Protection Act 1985

5. Regulations - Transport

ADR:	International Carriage of Dangerous Goods by Road
RID:	International Carriage of Goods by Rail
IMDG:	International Maritime Dangerous Goods Code
MFAG:	Medical First Aid Guide (For use on ships)
EMS:	Emergency Procedures for Ships carrying Dangerous Goods
IATA:	Dangerous Goods Regulations by Air
ICAO:	Technical Instructions for Safe Transport of Dangerous Goods by Air
UN No:	United Nations Number
SIN:	Substances Identification Number (Same as UN No)
CI No:	Colour Index Number
CAS No:	Chemical Abstracts Services Registry Number (USA)

UN Packing Groups

I:	Dangerous goods of great danger	N.O.S.:	Not otherwise specified
II:	Dangerous goods of medium danger	N.A.:	Not applicable
III:	Dangerous goods of minor danger	N.O.I.:	Not otherwise Indicated (USA)

6. Toxicity

LD50, LC50:	Result of acute toxicity tests - See also HSE relevant ACOPs & guidance on classification
ACGIH:	American Conference of Governmental Industrial Hygienists (who publish TLVs)
TLV:	Threshold Limit Value
OEL:	Occupational Exposure Limit - Listed in HSE Guidance Note EH40

APF

MEL: Maximum Exposure Limit - (in COSHH Regs) to replace OEL Control Limit
OES: Occupational Exposure Standard (in COSHH Regs) to replace OEL Recommended Limit
RTECS: Register of Toxic Effects of Chemical Substances (USA)