

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product Identification MONNEX

1.2 Application and Use

Fire fighting powder for use on Class B and C fires.

1.3 Manufacturer/Supplier

Angus Fire Armour Ltd, Thame Park Road, Thame, Oxfordshire, OX9 3RT

Telephone: (01844) 265000 Fax: (01844) 265156

Emergency Telephone Number (24 hours)

For information and supply: Angus Fire (015242) 61166

1.4 Product Description

A reaction mixture of urea and potassium bicarbonate, with flow additives and hydrophobing agents.

2. COMPOSITION

There are no hazardous components based upon current legislation.
Please see section 8 for respirable dust information.

3. HAZARDS IDENTIFICATION

Human health hazards: Not classified as hazardous under CHIP.

4. FIRST AID MEASURES

4.1 General

First aiders should know and take the precautions appropriate to avoid danger to themselves and the casualty.

Take casualty together with material safety data sheet of this product to hospital or doctor, if necessary.

First Aid - Skin: Remove contaminated clothing. If there is skin contact, wash immediately with plenty of clean, gently flowing water. If persistent irritation occurs, obtain medical attention.

First Aid - Eye: If there is eye contact, wash immediately with plenty of clean, gently flowing water for 10 minutes.

First Aid - Ingestion: If ingestion is suspected, do not induce vomiting. Send casualty to hospital immediately.

First Aid - Inhalation: Remove casualty from exposure. If there is breathing difficulty or cough, keep patient at rest seated in position of maximum comfort.

5. FIRE FIGHTING MEASURES

General Hazards

Fire fighting measures are not applicable as MONNEX is a fire extinguishing medium. If product containers are involved in fire, then a suitable extinguishing agent should be applied.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	SPILLAGE: Do not allow to enter public sewers and watercourses. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities.
Clean-up methods - small spillage:	Shovel into dry containers. Cover and move the containers. Vacuum cleaning is recommended to minimise dust formation. Flush the area with water.

7. HANDLING AND STORAGE

Handling:	When handling this product use suitable containment methods to avoid generation of dust and local exhaust ventilation to limit personal exposure.
Storage:	Keep cool and dry in the absence of vibration. Maintain good housekeeping practice, store away from sodium hypochlorite (bleach).

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient comments:	Product contains respirable Silica which has a MEL of 0.3 mg/m ³ (8 hour TWA).
Personal protection:	Use of gloves, goggles and protective clothing is recommended.
Ventilation:	Provide sufficient ventilation for operations causing dust formation.
Respirators :	Respiratory protection (P1) must be used if air concentration exceeds acceptable level.
Protective gloves :	No specific hand protection noted but gloves may be still advisable. Use protective gloves made of impermeable material.
Eye protection :	Wear approved chemical safety goggles where eye exposure is reasonably probable.



Hygienic work practices : Wash at end of each work shift and before eating, smoking and using toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off white powder.
Odour:	Slightly ammoniacal.
pH:	8 – 9 of 10% solution in water.
Density/Specific Gravity:	Settled apparent density 950 – 1100 kg/m ³
Solubility:	Soluble in water but silicone additive delays dissolution.
Flammability:	Non-flammable.
Decomposition:	At 270°C in flame zone.

10. STABILITY/REACTIVITY

Stability :	Normally stable.
Conditions to avoid :	Avoid contact with acids. Avoid contact with water. Avoid contact with strong oxidisers.

11. TOXICOLOGICAL INFORMATION

Toxic dose – LD 50 : Monnex: >4000 mg/kg (oral rat)

Ingestion: May cause discomfort if swallowed.
Skin contact: Prolonged or repeated exposure may cause irritation.
Inhalation: Dust may irritate respiratory system or lungs.
Eye contact: Particles in the eyes may cause irritation and smarting.

12. ECOLOGICAL INFORMATION

Mobility : Soluble in water therefore it could increase the pH if washed into watercourses.
Bioaccumulation : Low potential for bioaccumulation.
Degradability : Not readily biodegradable.
Acute fish toxicity : Not toxic at limit of water solubility.
In the event of large spillage, advise appropriate authority.

13. DISPOSAL CONSIDERATIONS

Disposal methods : Powder or contaminated packaging to be collected, sealed tightly in bags and disposed on approved landfills. Do not dispose with acids.
Waste class : **European Waste Catalogue 160304**

14. TRANSPORT INFORMATION

Label for conveyance: No Transport Warning Sign Required
Road:
UN No: N/C
Rail:
Rail Transport Class No: N/C
Sea:
Sea Transport Class No: N/C EmS No: N/C
MFAG Table No: N/C
Air:
Air Transport Class No: N/C

15. REGULATORY INFORMATION

Risk phrases : Not classified.
Safety phrases : S-22 Do not breathe dust.
UK regulatory references : Classification, Packaging and Labelling Regulations 1984. The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations 1993.
EU directives : Dangerous Preparations Directive 88\379. System of specific information relating to Dangerous Preparations. 91\155. Safety Data Sheet Directive 2001/58
Statutory instruments : Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
Approved code of practice : Safety Data Sheets for Substances and Preparations L62. Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance notes : Occupational Exposure Limits EH40. CHIP for everyone HSG(108).

16. OTHER INFORMATION

User notes : N/A
Information sources : Croner's: Substances Hazardous to Health. Croner's: Emergency First Aid Guide. Croner's: Emergency Spillage Guide. Croner's: Dangerous Substances.



DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health,safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
