



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Product Identification GPS POWDER

1.2 Application and Use Multipurpose extinguishing powder
for use in portable fire extinguishers for Class A, B & C fires

1.3 Supplier Chubb Fire Limited
Chubb House
Sunbury on Thames, Middlesex TW16 7AR
Phone: +44 (0)1932 785588 / Fax: +44 (0)1932 765630

Emergency Telephone Number

As Above

1.4 Product Description

Mixture of monoammonium phosphate, ammonium sulphate and additives

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance | Synonyms | Concentration % | Health class | CAS No. |
|------------------------------|------------------|-----------------|--------------|------------|
| Monoammonium phosphate | MAP | 38 - 42 | R36, 37, 38 | 7722-76-1 |
| Ammonium sulphate | | 52 - 57 | R36, 37, 38 | 7783-20-2 |
| Mica | | 1.5 - 2.5 | R36, 37, 38 | 12001-26-2 |
| Attapulugus clay | Atapulgit | 2 - 3 | R36, 37, 38 | 8031-18-3 |
| Amorphous silica | Synthetic silica | 0.4 - 1.0 | R36, 37, 38 | 7631-86-9 |
| Methyl Hydrogen Polysiloxane | Silicon oil | 0.2 - 0.6 | R36, 37, 38 | 68037-59-2 |

3. HAZARDS IDENTIFICATION

Human health hazards: Irritating to eyes, skin and respiratory tract.



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

First Aid - Skin: Wash off with warm soapy water. A moisturiser may be used to replenish lost oils. If persistent irritation occurs, obtain medical attention.

First Aid - Eye: Wash out eyes with plenty of water or eye wash solution and seek medical attention.

First Aid - Ingestion: Rinse mouth, drink large amounts of water. Seek medical help.

5. FIRE FIGHTING MEASURES

General Hazards

N/A This product is for fire fighting purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not breathe dust.

Personal protection: Wear protective clothing specified for normal operations.

Environmental precautions: SPILLAGE - Dispose of in compliance with local and national regulations. Components are non-hazardous, sanitary landfill disposal may be acceptable.

Clean-up methods: Sweep up or vacuum. Do not use strong alkali cleaning products. Store in covered containers. Do not reuse. In case of large spills, use rubber gloves, chemically resistant suit and boots, hard hat and air purifying respirator

7. HANDLING AND STORAGE

Should be stored in original containers. Store in dry, cool, well-ventilated place away from alkaline compounds. Wash after handling. Do not cut, grind, weld or drill on or near product containers. Treat empty containers as if they were full.

Personal Protective Equipment - Fire Fighting

GPS powder will be used in fire fighting. This process may involve exposure to heat, flame and possibly toxic vapours and fumes. We recommend using appropriately designed personal protective equipment for firefighting situations.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General precautions: Use in well ventilated areas and follow good general housekeeping procedures.

Personal Protective Equipment - Other Handling

Avoid prolonged, extensive or repeated inhalation or contact to eyes and skin.

Hand Protection Wear rubber gloves for routine industrial use.

Eye Protection Recommended as mechanical barrier for prolonged exposure. Safety glasses or chemical type goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|--|
| Physical state: | Solid |
| pH (1% soln.): | 4.2 - 4.7 |
| Colour: | Pale orange. |
| Melting Point: | 190 °C |
| Odour: | Odourless |
| Flammability: | Not flammable |
| Solubility: | About 22.7 g/100 g H ₂ O @ 0 °C |
| Specific Gravity: | About 1.9 |

10. STABILITY/REACTIVITY

Stability

Stable up to 190 °C. Avoid mixing with strong alkalis. Do not mix with BC type dry chemical extinguishing agents.

Hazardous Decomposition Products

Do not expose containers to extreme heat or flame, since the containers are made from polyethylene and/or polypropylene and will burn. Thermal decomposition of containers and/or products may generate acrid smoke and fumes / traces of NH₃, SO_x, Na₂O, Cl⁻, NO_x and HF.

11. TOXICOLOGICAL INFORMATION

Inhalation

Inhalation of hazardous amounts is unlikely when used as intended. Is irritant to respiratory tract when inhaled.

Ingestion

Low oral risk when used as intended. May cause nausea, vomiting and diarrhoea when ingested.

Contact to eyes or skin

Low risk if appropriate precaution measures are taken (see section 6). Can cause skin irritation and damage to the eyes.



12. ECOLOGICAL INFORMATION

| | |
|----------------------------|--|
| Persistence/degradability: | Biodegradable. Ammonium phosphate and ammonium sulphate are common fertilisers for many crops. |
| Bioaccumulation: | Bioaccumulation is unlikely to occur due to metabolism and excretion. |
| Biodegradation: | No data available at present. |
| Ecotoxicity: | No data available at present. |

13. DISPOSAL CONSIDERATIONS

Disposal

Waste should be disposed via local authority waste collection service or registered waste carrier. Ensure the destination is a licensed facility.

| | |
|--------------------|-----------------------------------|
| Local legislation: | Control of Pollution Act 1974 |
| | Environmental Protection Act 1990 |
| | Special Waste Regulations 1996 |

14. TRANSPORT INFORMATION

Label for conveyance: No Transport Warning Sign Required

US DOT: No information available

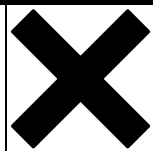
IMO: Not regulated as a hazardous material

IATA: Not regulated as a hazardous material

RID/ADR: Not regulated as a hazardous material

Canadian TDG: No information available

15. REGULATORY INFORMATION



Label For Supply:

Irritant

Risk Phrases: R-36, 37, 38

Irritating to eyes, skin and respiratory tract

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Safety Phrases: S-23, S-24, S-25

Wear eye/face protection.

Avoid contact with eyes and skin.

UK Regulatory References:

Health and Safety at work Act 1974.

Chemicals (Hazard Information & Packaging for Supply) Regulations 1994 / Amendment Regulations 1996.

EC Directives: Substances Directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC, 73/146/EEC, 75/409/EEC, 79/831/EEC General Preparations Directive 88/379/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) Regulations.

Approved Code of Practice: Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes: Occupational Exposure Limits EH40/96.

16. OTHER INFORMATION

For further literature/information see product data sheet.

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.
