

## SAFETY DATA SHEET

KOCH FERTILISER AUSTRALIA PTY LTD

### 1. Identification

**Product identifier MAP Sulfur Mo Blend** 

Other means of identification

Product code KFAu MAPSSuMoBlend AU EN

Recommended use of the chemical and restrictions on use

Recommended use Fertiliser. Restrictions on use Not available.

Details of manufacturer or importer

Manufacturer

Company name Koch Fertiliser Australia Pty Ltd

**Address** Graincorp

Mackey Street

North Geelong Victoria 3215

Australia

+011.65.6831.6563 or **Telephone** 

+1.316.828.7672

kochmsds@kochind.com e-mail

**Emergency telephone** 

number

(Please reverse charges)

Chemtrec: +001 703-527-3887

## 2. Hazard(s) identification

## Classification of the hazardous chemical

Physical hazards Not classified.

**Health hazards** Skin corrosion/irritation Category 2

**Environmental hazards** Not classified.

## Label elements, including precautionary statements

Hazard symbol(s)



Exclamation mark

Signal word Warning

Causes skin irritation. **Hazard Statement(s)** 

**Precautionary Statement(s)** 

Prevention Wash thoroughly after handling. Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical Response

advice/attention. Take off contaminated clothing and wash before reuse.

Store away from incompatible materials. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards which do not

result in classification

None known.

**Supplemental information** None

## 3. Composition/information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients	
Monoammonium phosphate	7722-76-1	> 80	
Sulphur	7704-34-9	< 20	
Non-hazardous Components	Proprietary	< 3	
Sodium molybdate dihydrate	10102-40-6	< 0.5	

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from

supplier.

#### 4. First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure

Medical attention and special treatment

Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain. Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

## 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing

media

Water spray. Foam. Powder. Dry sand.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk. Use water spray to cool unopened

containers.

**Hazchem Code** 

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Avoid contact with eyes, skin, and clothing. Wear appropriate personal

protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from

incompatible materials (see section 10 of the SDS).

## 8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of

inhalation of dust.

Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Use tight fitting goggles if dust is generated.

Skin protection

Hand protection Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove

supplier.

Other Risk of contact: Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of

dust, use suitable respiratory equipment with particle filter.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety

practices.

### 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Form Powder. Granules.

Colour Grey. Brown. Greenish-brown.

Odour Not available.
Odour threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper

(%)

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

**Viscosity** 

Solubility (water) Soluble.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

**Decomposition temperature** 

Not available.

Not available.

Not available.

Other physical and chemical parameters

Bulk density950 - 1050 kg/m³Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

## 10. Stability and reactivity

**Reactivity**The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

**Conditions to avoid** Moisture. High temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

**Hazardous decomposition** 

products

Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Sulphur oxides.

## 11. Toxicological information

Information on possible routes of exposure

**Inhalation** Dust may irritate respiratory system.

Skin contact Causes skin irritation.

Eye contact Dust may irritate the eyes.

**Ingestion** May cause discomfort if swallowed.

Symptoms related to exposure Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Acute toxicity May cause discomfort if swallowed.

Components Species Test results

Monoammonium phosphate (CAS 7722-76-1)

Acute

Dermal

LD50 Rat > 5000 mg/kg

Inhalation

LD50 Rat > 5000 mg/m<sup>3</sup>

Oral

LD50 Rat > 2000 mg/kg

MAP Sulfur Mo Blend SDS Australia

935598 Version #: 01 Revision date: - Issue date: 14-October-2016

Components **Species Test results** Sulphur (CAS 7704-34-9) Acute Dermal LD50 Rat > 2000 mg/kg, 24 hours Inhalation LC50 Rat > 5.43 g/m3, 4 hours Oral LD50 Rat > 2000 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/irritationDust may irritate the eyes.

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not available.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test results

Sulphur (CAS 7704-34-9)

Aquatic

Crustacea EC50 Daphnia magna  $> 5 \mu g/l$ , 48 hours Fish LC50 Oncorhynchus mykiss  $> 5 \mu g/l$ , 96 hours

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

No data available.

Mobility in soil

This product is water soluble and may disperse in soil.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal methods**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Residual waste**Dispose of in accordance with all applicable regulations. Empty containers or liners may retain

some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

**ADG** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

### Safety, health and environmental regulations

No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with

Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous

Chemicals (23/12/2011).

#### **High Volume Industrial Chemicals (HVIC)**

Monoammonium phosphate (CAS 7722-76-1) 1000 - 9999 TONNES See the regulation for additional

information.

Sulphur (CAS 7704-34-9) 10000 - 99999 TONNES See the regulation for additional

information.

### Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

## National Pollutant Inventory (NPI) substance reporting list

Not listed.

## **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

## Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

## **Restricted Carcinogenic Substances**

Not regulated.

### International regulations

## **Stockholm Convention**

Not applicable.

### **Rotterdam Convention**

Not applicable.

## **Kyoto protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

# **Basel Convention**

Not applicable.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information

Issue date 14-October-2016

Revision date -

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation. expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.