

SAFETY DATA SHEET

SULPHUR 800

This safety data sheet complies with the requirements of:
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS # : NP-0049-A
Revision date: 2018-07-18
Format: EU
Version 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) NP-0049-A
Product Name SULPHUR 800

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: A micronutrient suspension concentrate for use in agriculture
Restrictions on use Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Manufacturer FMC Agro Limited
Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 (0) 1244 537370
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point Tel: +44(0)1244 537370
Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

Emergency telephone Tel: +44(0)1244 537370 (Office hours only)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

| | |
|--|-------------------|
| Skin corrosion/irritation | Category 2 (H315) |
| Serious eye damage/eye irritation | Category 2 (H319) |
| EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction. | |

2.2. Label elements

Hazard pictograms



Signal Word
WARNING

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary Statements

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

3.2 Mixture containing the following hazardous ingredients:

| Chemical name | EC-No | CAS-No | Weight percent | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|---|-----------|------------|----------------|---|---------------------------|
| Sulphur powder (ground) | 231-722-6 | 7704-34-9 | 30-60 | Skin Irrit. 2 (H315) | 01-2119487295-27-XXXX |
| NAPHTHALENESULFONIC ACID, METHYL-, POLYMER WITH FORMALDEHYDE, SODIUM SALT | - | 81065-51-2 | 1-10 | Eye Irrit. 1 (H318) | No data available |
| ethane-1,2-diol | 203-473-3 | 107-21-1 | 1-10 | Acute Tox. 4 (H302) STOT RE 2: (H373) | 01-2119456816-28-XXXX |

Additional Information

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

Contains 1,2-Benzisothiazolin-3-one (CAS number 2634-33-5) at a level below the concentration limit for classification of the mixture as sensitising.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. If symptoms persist, call a doctor.

Skin Contact

Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash

off immediately with soap and plenty of water. If symptoms persist, call a doctor.

Inhalation

Remove person from exposure ensuring one's own safety while doing so.

Ingestion

Rinse mouth. Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed**Most important symptoms and effects, both acute and delayed**

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed**Indication of immediate medical attention and special treatment needed, if necessary**

Eye bathing equipment should be available on the premises.

Section 5: FIREFIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released in fire situations.

Hazardous Combustion Products

Sulphur oxides.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. In the case of large spills (1 ton or more), alert the appropriate authorities.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to

the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for Containment Surface drains within close vicinity of the spill should be covered. Dike to confine spill and absorb with non-combustible absorbent such as clay, sand or soil.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific Use(s)

No data available.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Chemical name | European Union | The United Kingdom | France | Spain | Germany |
|-----------------------------|---|--|---|---|---|
| ethane-1,2-diol 107-21-1 | TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ S* | STEL 40 ppm STEL 104 mg/m ³ STEL 30 mg/m ³ TWA 10 mg/m ³ TWA 20 ppm TWA 52 mg/m ³ Skin | TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ P* | TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ S* | - |
| Chemical name | Italy | Portugal | The Netherlands | Finland | Denmark |
| ethane-1,2-diol 107-21-1 | TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ Pelle* | TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ Ceiling 100 mg/m ³ C(A4) P* | Huid* STEL 104 mg/m ³ TWA 52 mg/m ³ TWA 10 mg/m ³ | TWA 20 ppm TWA 50 mg/m ³ STEL 40 ppm STEL 100 mg/m ³ iho* | TWA 10 ppm TWA 26 mg/m ³ TWA 10 mg/m ³ H* |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| ethane-1,2-diol 107-21-1 | H* STEL 20 ppm STEL 52 mg/m ³ TWA 10 ppm TWA 26 mg/m ³ | SS-C** H* TWA 10 ppm TWA 26 mg/m ³ STEL 20 ppm STEL 52 mg/m ³ | TWA 15 mg/m ³ STEL 50 mg/m ³ | TWA 20 mg/m ³ TWA 52 ppm TWA 52 mg/m ³ S* STEL 104 mg/m ³ STEL 40 ppm | TWA 10 mg/m ³ TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³ Skin |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Provide emergency on-site eyewash.

Hand Protection Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of materials such as nitrile or neoprene.

Skin and Body Protection Wear protective gloves/clothing. Coveralls must be discarded after use if contaminated.

Respiratory Protection Not required under normal use.

Environmental exposure controls Refer to specific Member State legislation for requirements under Community environmental legislation.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|------------------------------|--------------------------------|
| Physical State | Suspension |
| Appearance | Liquid |
| Odour | Barely perceptible |
| Colour | Yellow |
| Odour threshold | No information available |
| pH | 7.0 - 9.0 |
| Melting point/freezing point | No information available |
| Boiling point/boiling range | No information available |
| Flash point | No information available |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit | No information available |
| Vapour pressure | No information available |
| Vapour density | No information available |
| Specific gravity | 1.41 - 1.45 |
| Water solubility | Dispersible in water |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidising properties | Non-oxidizing (by EC criteria) |

9.2. Other information

| | |
|------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC content (%) | No information available |
| Density | No information available |
| Bulk density | No information available |
| K _{st} | No information available |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

10.3. Possibility of hazardous reactions**Hazardous polymerisation**

Hazardous polymerization does not occur.

Hazardous reactions

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidising agents, Strong acids.

10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral > 3000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

| Chemical name | LD50 Oral | LD50 Dermal | Inhalation LC50 |
|--|----------------------|-------------------------|-------------------------|
| Sulphur powder (ground) | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 9.23 mg/L (Rat) 4 h |
| NAPHTHALENESULFONIC ACID, METHYL-, POLYMER WITH FORMALDEHYDE, SODIUM SALT | 4786 mg/kg (rat) | | |

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Sensitisation No information available.
Mutagenicity No information available.
Carcinogenicity No information available.

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.

Symptoms

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

There is no data available for this product.

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|-------------------------|-------------------|---|---|
| Sulphur powder (ground) | - | 96 h LC50: = 866 mg/L (Brachydanio rerio) static 96 h LC50: < 14 mg/L (Lepomis macrochirus) static 96 h LC50: > 180 mg/L (Oncorhynchus mykiss) static | - |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil**Mobility in soil**

No information available.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Negligible

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from residues / unused products**

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national guidelines. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EWC Waste Disposal No 02 01 08

OTHER INFORMATION NOTE : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

Section 14: TRANSPORT INFORMATION

NOTE

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

IMDG/IMO

| | |
|---|---|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Hazard class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Marine Pollutant | Not applicable |
| 14.6 Special Provisions | None |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | This product is not transported in bulk containers. |

RID

| | |
|---------------------------|----------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Hazard class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Environmental Hazard | Not applicable |
| 14.6 Special Provisions | None |

ADR/RID

| | |
|---------------------------|----------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Hazard class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Environmental Hazard | Not applicable |
| 14.6 Special Provisions | None |

ICAO/IATA

| | |
|---------------------------|----------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Hazard class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Environmental Hazard | Not applicable |
| 14.6 Special Provisions | None |

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

| Chemical name | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|-------------------------|-----------------|---------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Sulphur powder (ground) 7704-34-9 | X | X | X | | X | X | X | X |
| NAPHTHALENESULFONIC ACID, METHYL-, POLYMER WITH FORMALDEHYDE, SODIUM SALT 81065-51-2 | X | X | | X | X | | | X |
| ethane-1,2-diol 107-21-1 | X | X | X | X | X | X | X | X |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3

Not applicable

Full text of H-Statements referred to under sections 2 and 3

EUH208 - May produce an allergic reaction

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H373 - May cause damage to organs through prolonged or repeated exposure

Legend

| | |
|----------|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS: | CAS (Chemical Abstracts Service) |
| Ceiling: | Maximum limit value: |
| DNEL: | Derived No Effect Level (DNEL) |
| EINECS: | EINECS (European Inventory of Existing Chemical Substances) |
| GHS: | Globally Harmonised System (GHS) |
| IATA: | International Air Transport Association (IATA) |
| ICAO: | International Civil Aviation Organization |
| IMDG: | International Maritime Dangerous Goods (IMDG) |
| LC50: | LC50 (lethal concentration) |
| LD50: | LD50 (lethal dose) |
| PBT: | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| STEL: | Short term exposure limit |
| SVHC: | SVHC: Substances of Very High Concern for Authorisation: |
| TWA: | time weighted average |
| vPvB: | very Persistent and very Bioaccumulative |

Revision date: 2018-07-18

Reason for revision: Format Change.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By

FMC Corporation

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End of Safety Data Sheet