

Safety Data Sheet



NON-Hazardous, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Suplaflo with Urea and Additiives

Synonyms

SuplaFlo10NP
SuplaFlo10NP + PHOS
SuplaFlo10 + PHOS
SuplaFlo10NP+3% Urea
SuplaFlo10NP+4% Urea
SuplaFlo10NP+5% Urea
SuplaFlo10NP+6% Urea
SuplaFlo10NP+3% Urea+Phos
SuplaFlo10NP+4% Urea+Phos
SuplaFlo10NP+5% Urea+Phos
SuplaFlo10NP+6% Urea+Phos
SuplaFlo Gain

Product Code

Recommended use: BioDunder co-products are licensed by the Queensland Department of Environment and Science for use as an animal feed (EOW Code Dunder ENEW07503118). Refer to the 'Stockfeed with Urea User Guide' which can be obtained at www.wilmarsugaranz.com/what-we-do/agservices. This supplement should not be fed to starving, thirsty or salt deficient stock. Only feed to animals listed on the product label.

Supplier: Wilmar BioEthanol (Australia) Pty. Ltd. (Ag Services)
ABN: 85 009 660 191
Street Address: Bruce Highway
Sarina, Queensland, 4737
Telephone: +61 7 4940 9822
Email: agservices@wilmar.com.au

Emergency Telephone number: 1800 161 321 (available in Australia only)

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS NO | PROPORTION |
|---------------------------------|------------|------------------|
| Dunder* | 91082-90-5 | 94 - 100 % (w/w) |
| Urea | 57-13-6 | 0 - 6 % (w/w) |
| Phosphoric acid | 7664-38-2 | 0 - 2 % (w/w) |
| *Dunder contains the following: | | |
| - Ash | | 11 - 65 % (w/w) |
| - Carbohydrates | | 5 - 25 % (w/w) |

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- Glycerol
- Protein
- Water
Ingredients determined to be Non-Hazardous

| | |
|-----------|-----------------|
| 56-81-5 | 1 - 6 % (w/w) |
| | 5 - 35 % (w/w) |
| 7732-18-5 | 30 - 80 % (w/w) |
| | Balance |
| <hr/> | |
| 100% | |

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert

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material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. This product does not contain restricted animal material. This product may contain up to 6% Urea. Urea can poison stock and as little as 0.25g for each Kg live weight can kill cattle not adapted to it. Urea can kill cattle if consumed too quickly. This supplement should not be fed to starving, thirsty or salt deficient stock. pH of water sources can lead to hydrolysis of urea to ammonia. Do not feed to sheep. Refer to the 'Stockfeed with Urea User Guide' which can be obtained at www.wilmarsugar-anz.com/what-we-do/agsservices. Fermentation activity may occur which can yield carbon dioxide with possible traces of ethanol or volatile fatty acids. Fermentation may also occur on dilute surface layers formed by condensation from the headspace above the liquid. The addition of water may initiate bacterial growth which can produce methane and further carbon dioxide. This may create an explosive atmosphere in the presence of a spark or flame. Insufficient oxygen may also be present. If entry into vessels or storage tanks is required then confined space entry requirements should be implemented. Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Prevent build-up of dust, mists or vapours in the work atmosphere. Maintain high standards of personal hygiene. Product may contain added MOP for quality purposes and should not be used as a stockfeed.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

| | TWA | | STEL | | NOTICES |
|-----------------|-----|-------|------|-------|---------|
| | ppm | mg/m3 | ppm | mg/m3 | |
| Glycerin mist | - | 10 | - | - | - |
| Phosphoric acid | - | 1 | - | 3 | - |

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate

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respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-----------------------------------|
| Form: | Viscous Liquid |
| Colour: | Dark brown-black |
| Odour: | Sharp organic odour like molasses |
| Solubility: | Partially soluble in water |
| Specific Gravity: | 1.12 - 1.16 |
| Relative Vapour Density (air=1): | >1 |
| Vapour Pressure (20 °C): | N Av |
| Flash Point (°C): | N App |
| Flammability Limits (%): | N App |
| Autoignition Temperature (°C): | N Av |
| Melting Point/Range (°C): | N Av |
| Boiling Point/Range (°C): | Approx. 100 |
| pH: | 3.0 - 4.5 |
| Viscosity: | N Av |
| Total VOC (g/Litre): | N Av |

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed. Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Fermentation activity may occur which can yield carbon dioxide with possible traces of ethanol or volatile fatty acids. Fermentation may also occur on dilute surface layers formed by condensation from the headspace above the liquid. The addition of water may initiate bacterial growth which can produce methane and further carbon dioxide. This may create an explosive atmosphere in the presence of a spark or flame. pH of water sources can lead to hydrolysis of urea to ammonia. Insufficient oxygen may also be present. If entry into vessels or storage tanks is required then confined space entry requirements should be implemented.

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Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. This product may contain up to 6% Urea. Urea can poison stock and as little as 0.25g for each Kg live weight can kill cattle not adapted to it. Urea can kill cattle if consumed too quickly. This supplement should not be fed to starving, thirsty or salt deficient stock. It may also contain added MOP for quality purposes. Only feed to animals listed on the product label.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on

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ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: Urea can poison stock and as little as 0.25g for each Kg live weight can kill cattle not adapted to it. Urea can kill cattle if consumed too quickly. Only feed to animals listed on the product label.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIIC).

16. OTHER INFORMATION

Reasons for issue: Revised
Update in Toxicological Information
Update in Ecological Information

Product Name: Suplaflo with Urea and Additiives

Reference No: WIL0012710

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Minor Text Changes

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.