



SAFETY DATA SHEET

FLOWER POWER

Page: 1
Printed: 06/26/2018
Revision: 06/02/2018
Supersedes Revision: 06/01/2016

1. Product and Company Identification

Product Code: FGUS024
Product Name: FLOWER POWER
Trade Name: FLOWER POWER
Company Name: Stoller Australia Pty Ltd
1 Creswell Road
Largs Bay
South Australia 5016
Web site address: www.stoller.com.au
Email address: stoller@stoller.com.au
Emergency Contact: STOLLER PRODUCTION CHEMIST
Contact number: 08 8169-0988
Information: 1800 337-845
Intended Use: For agricultural use only

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2

Acute Toxicity: Skin, Category 4

Acute Toxicity: Oral, Category 5



GHS Signal Word: **Warning**

GHS Hazard Phrases: H303 - May be harmful if swallowed.
H312 - Harmful in contact with skin.
H319 - Causes serious eye irritation.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment see ... on this label.
P337+313 - If eye irritation persists, get medical advice/attention.
P362+364 - Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to ...

Potential Health Effects (Acute and Chronic): Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.

Inhalation: Inhaling mist, spray, or vapor may cause irritation to upper respiratory tract (nose and throat).

Skin Contact: Skin irritation. Skin exposure may cause slight irritation, redness, itching, swelling. May cause more severe response if skin is damp, abraded (scratched or cut), or covered by clothing, gloves or footwear. Prolonged contact may cause more severe symptoms. Damage is localized to contact areas.

Eye Contact: Causes eye irritation. Eye exposure may cause serious eye irritation, pain, and/or damage to the eye. May cause conjunctival swelling and cornea opacification from hypertonic solution. Corneal eye pain, redness, acute corneal thickening or whitening.

Ingestion: Consumption of hypertonic solutions causes nausea, vomiting, and increased thirst.

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Medical Conditions Generally Aggravated By Exposure: Any skin condition that disrupts the skin, such as abrasions, cuts, psoriasis, fungal infections, etc. Any eye condition that compromises tear production, conjunctiva, or normal corneal homestasis.

3. Composition/Information on Ingredients

| CAS # | Components (Chemical Name) | Concentration | |
|------------|----------------------------|---------------|--|
| 1314-13-2 | Zinc Oxide | 5-10 % | |
| 10043-35-3 | Orthoboric Acid | 10-15 % | |
| 7631-95-0 | Sodium Molybdate | < 1.0 % | |
| 20427-59-2 | Copper Hydroxide | < 1.0 % | |
| 141-43-5 | Monoethanolamine | < 2-4 % | |

4. First Aid Measures

Emergency and First Aid Procedures: Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional.

In Case of Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

In Case of Skin Contact: Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use. Seek medical attention should severe irritation occurs.

In Case of Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, get medical advice/attention.

In Case of Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Signs and Symptoms Of Exposure: Localized redness, warmth, and irritation consistent with mechanism of injury: abrasion, burn, hypertonic solution.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: N.A.

Explosive Limits: LEL: N.A. UEL: N.A.

Autoignition Pt: N.A.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: None known.

Fire Fighting Instructions: Keep unnecessary people away; isolate hazard area and deny entry. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Flammable Properties and Hazards: This material does not burn.

Hazardous Combustion Products:

SAFETY DATA SHEET

FLOWER POWER

Page: 3
Printed: 06/26/2018
Revision: 06/02/2018
Supersedes Revision: 06/01/2016

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Isolate the area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard on some surfaces. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas. See Section 12, Ecological Information.

Steps To Be Taken In Case Material Is Released Or Spilled: Small and large spills: Contain spilled material if possible. Absorb with materials such as sand. Collect in suitable and properly labeled containers. Flush residue with water. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Precautions To Be Taken in Handling: Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Wear personal protective equipment as described in Section 8, Exposure Controls/Personal Protection.

Precautions To Be Taken in Storing: Protect from atmospheric moisture. Keep containers tightly closed when not in use. Keep separated from incompatible substances see Section 10, Stability and Reactivity.

8. Exposure Controls/Personal Protection

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|------------|-----------------------|----------|-------------------------------|--------------|
| 1314-13-2 | Zinc Oxide | No data. | TLV: 10 mg/m ³ | No data. |
| 10043-35-3 | Orthoboric acid | No data. | TLV: N/E | No data. |
| 7631-95-0 | Sodium Molybdate | No data. | TLV: 10 mg/m ³ | No data. |
| 20427-59-2 | Copper Hydroxide | No data. | TLV: 1mg/m ³ as Cu | No data. |
| 141-43-5 | Monoethanolamine | No data. | 3 ppm | No data. |

Respiratory Equipment (Specify Type): Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: high efficiency particulate air (HEPA) N95. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: Protective Wear safety glasses with side-shields. Wear chemical safety goggles and/or a face-shield to protect against skin and eye contact when appropriate.

Gloves: Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other Protective Clothing: Wear clean, body-covering clothing. Wear appropriate clothing to avoid skin contact. Wear long sleeve shirt, long pants, impervious gloves and protective shoes.

Engineering Controls (Ventilation etc.): Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Work/Hygienic/Maintenance Practices: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and affected skin immediately after handling, before smoking or eating, before breaks, and at the end of the workday.

SAFETY DATA SHEET

FLOWER POWER

Page: 4

Printed: 06/26/2018

Revision: 06/02/2018

Supersedes Revision: 06/01/2016

9. Physical and Chemical Properties

| | |
|---|--------------------------------|
| Physical States: | [] Gas [X] Liquid [] Solid |
| Appearance and Odor: | Blue liquid with no odor |
| pH: | ~ 8 - 9 |
| Freezing Point: | N.E. |
| Boiling Point: | > 248 degrees F |
| Flash Pt: | (120 degrees C) |
| Evaporation Rate: | N.E. |
| Flammability (solid, gas): | Material will not burn. |
| Explosive Limits: | LEL: N.A. UEL: N.A. |
| Vapor Pressure (vs. Air or mm Hg): | N.E. |
| Vapor Density (vs. Air = 1): | N.E. |
| Specific Gravity (Water = 1): | ~ 1.32 - 1.36 |
| Density: | ~ 11.2 LB/GA |
| Solubility in Water: | Soluble |
| Saturated Vapor Concentration: | N.E. |
| Octanol/Water Partition Coefficient: | No data. |
| Percent Volatile: | N.A. |
| Autoignition Pt: | N.A. |
| Decomposition Temperature: | N.A. |
| Viscosity: | N.E. |

10. Stability and Reactivity

| | |
|---|---|
| Reactivity: | Hygroscopic. |
| Stability: | Unstable [] Stable [X] |
| Conditions To Avoid - Instability: | Stable under normal temperatures and pressures. |
| Incompatibility - Materials To Avoid: | Avoid contact with: bromide trifluoride. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates. |
| Hazardous Decomposition or Byproducts: | |
| Possibility of Hazardous Reactions: | Will occur [] Will not occur [X] |
| Conditions To Avoid - Hazardous Reactions: | None known. |

11. Toxicological Information

| | |
|---|---|
| Toxicological Information: | Mutagenicity: This product has not been investigated for mutagenic effects. Embryotoxicity: This product has not been investigated for embryotoxic effects. Teratogenicity: This product has not been investigated for teratogenic effects. Reproductive Toxicity: This product has not been investigated for toxic reproductive effects. CAS# 10043-35-3: Acute toxicity, LD50, Oral, Rat, 2660. MG/KG. Result: Gastrointestinal:Hypermotility, diarrhea. Gastrointestinal:Nausea or vomiting. ; Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 128,266, 1945 |
| Irritation or Corrosion: | No data available. |
| Symptoms related to Toxicological Characteristics: | No data available. |
| Sensitization: | No data available. |
| Chronic Toxicological Effects: | The toxicological properties of this material have not been fully investigated. |
| Carcinogenicity/Other Information: | No component is listed as a carcinogenic by IARC, NTP, OSHA, and ACGIH. |
| Carcinogenicity: | NTP? No IARC Monographs? No OSHA Regulated? No |

12. Ecological Information

| | |
|--|--|
| General Ecological Information: | The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures." |
| Results of PBT and vPvB assessment: | No data available. |
| Persistence and Degradability: | |
| Bioaccumulative Potential: | |
| Mobility in Soil: | |

13. Disposal Considerations

| | |
|-------------------------------|---|
| Waste Disposal Method: | PRODUCT: Reuse or reprocess, if possible. Waste disposal must be done following all Federal, State and Local regulations. Regulations may vary in different locations. Report spills if applicable. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. CONTAINER: Dispose properly accordingly to regulations on empty containers in your locality or make available to a container reconditioning facility for recycling. |
|-------------------------------|---|

SAFETY DATA SHEET

FLOWER POWER

Page: 6
Printed: 06/26/2018
Revision: 06/02/2018
Supersedes Revision: 06/01/2016

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. Trade Name: FLOWER POWER

DOT Hazard Class:
UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated. Trade Name: FLOWER POWER

UN Number: **Packing Group:**

Hazard Class:

IMDG MFAG Number: N.A.

IMDG EMS Page:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated. Trade Name: FLOWER POWER

Additional Transport Information: Placards / Markings: N.A.

Emergency Response Guide Number: N.A.

Reportable Quantity: N.A.

15. Regulatory Information

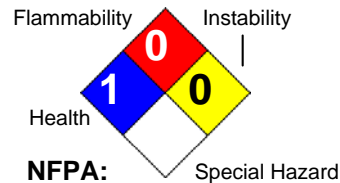
16. Other Information

Revision Date: 06/02/2018

Hazard Rating System:

| | | |
|---------------------|--|----------|
| HEALTH | | 1 |
| FLAMMABILITY | | 0 |
| REACTIVITY | | 0 |
| PPE | | |

HMIS:



Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer: