

# Material Safety Data Sheet



fair products, inc.

## FAIR PLUS

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Fair Plus

Product Use Description: Plant Growth Regulator

EPA Registration Number 51873-2

Company: Fair Products, Inc.  
P.O. Box 386  
Cary, NC 27512  
United States of America

Telephone: (US) 919-467-1599

Emergency Telephone: Chemtrec: (24 hours) 800-424-9300

Prepared by: Fair Products, Inc.

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### SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: liquid      Color: clear amber      Odor: slight

Hazard Summary      Irritating to eyes. May cause skin irritation.

#### Potential Health Effects

Primary Routes of Entry      Skin contact  
Eye contact  
Inhalation

Aggravated Medical Condition      None known

Inhalation      No adverse effects are expected under normal conditions of use

Skin	May Irritate skin.
Eyes	Irritating to eyes
Ingestion	No evidence of adverse effects from available information.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
Potassium salt of 1,2-dihydropyridazine 3, 6 –dione / 28382-15-2	21.7%

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### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation	If breathed in, move person to fresh air. If breathing has stopped artificial respiration should be started. Seek medical attention if symptoms develop.
Skin contact	Remove contaminated clothing. Wash thoroughly with soap and warm water. If irritation persists, seek medical advice/attention. Wash contaminated clothing before re-use.
Eye contact	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention if irritation persists.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a Poison Control Center or doctor. Never give anything by mouth to an unconscious or convulsing person.

**SECTION 5. FIREFIGHTING MEASURES****Flammable properties**

Flash Point >212 °F (100°C)

**Fire fighting**

Extinguishing media Water, dry chemical or foam.

Fire fighting procedures Protect against inhalation of combustion products. Assure self-contained breathing apparatus is worn. Prevent runoff if possible.

Further information Fight fires from a safe distance. Move containers from fire area if possible. Use water spray to cool unopened containers.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Ensure adequate ventilation. Wear suitable protective clothing, chemical resistant gloves, goggles, safety glasses or face shield. Avoid contact with skin and eyes.

Environmental precautions: Prevent from entering sewer system, surface water or soil.

Methods for containment/  
Methods for cleaning up: Absorb on an inert absorbent material (e.g. sand, silica gel, acid binder, universal binder or sawdust). Shovel into suitable container for disposal. Assure protective clothing is worn.

Further information: Keep in properly labeled containers.

Disposal: Dispose of in accordance with Local, State and Federal Regulations.

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## SECTION 7. HANDLING AND STORAGE

Handling Procedures:	<p>Wear suitable protective clothing, gloves and eye/face protection.</p> <p>Avoid inhalation, ingestion and contact with skin and eyes. Handle and open container with care. Protect from contamination.</p> <p>Use only in well-ventilated areas.</p> <p>Wash thoroughly after handling.</p> <p>Keep container closed when not in use.</p>
Requirements for Storage:	<p>Do not stack over 2 pallets high. Store containers away from direct heat. Keep container tightly closed in a cool, dry and well-ventilated area away from food, water and feed. Keep container tightly closed and maintain only in the original container. Avoid storage below 45°F.</p>

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	Contains no substance with occupational exposure limit values.
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### Personal protective equipment

Eye protection	Protective eyewear, such as goggles, safety glasses or face shield.
Hand protection	Chemical resistant protective gloves.
Skin and body protection	Long-sleeve shirt and long pants or coveralls. Rubber or plastic boots. Remove and wash contaminated clothing before re-use.
Respiratory protection	No personal respiratory protective equipment normally required. In the absence of adequate ventilation, use NIOSH-certified pesticide cartridge respirator.

Hygiene measures:	<p>Observe good personal hygiene and safety practices.</p> <p>Avoid contact with skin, eyes or clothing.</p> <p>Wear chemical resistant gloves and eye/face protection. Do not inhale aerosol.</p> <p>Avoid prolonged inhalation of mists.</p> <p>Ensure adequate ventilation especially in confined areas. Do not eat, drink or smoke when using.</p> <p>Wash hands thoroughly after handling.</p> <p>Remove and wash contaminated clothing before re-use.</p>
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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form:	liquid
Color:	clear amber
Odor:	slight

### Safety Data

Flash point:	>212°F (100°C)
pH	8.25
Density:	1.14 g/ml
Water Solubility:	0.004 g/100 gm @ 20°C
Viscosity:	CPS=2.6 @ 20°C
Evaporation rate:	0.22

## SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	Strong acids and bases
Conditions to avoid:	excessive heat
Hazardous decomposition:	oxides of carbon and nitrogen.
Hazardous polymerization:	Will not occur.
Stability:	Stable and ambient temperatures and pressures.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity:	LD <sub>50</sub> >5000 mg/kg (Rat)
Acute Dermal Toxicity:	LD <sub>50</sub> >2000 mg/kg (Rat)
Acute Inhalation Toxicity:	LC <sub>50</sub> >2.10 mg/l (Rat)
Primary Skin Irritation:	slightly irritating (Rabbit)
Primary Eye Irritation:	practically non-irritating (Rabbit)
Dermal Sensitization:	Not a contact sensitizer (Guinea Pig)

**Toxicological Assessment**

CMR Effects:	Carcinogenicity:	negative
1,2-dihydropyridazine -	Mutagenicity:	negative
3,6-dione, potassium salt	Reproductive Toxicity:	negative

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity Effects**

Toxicity to fish: (MH)	96 hours LC <sub>50</sub> static assay in Rainbow trout: 1435 mg/l
	96 hours LC <sub>50</sub> static assay in Bluegill: 1608 mg/l
Toxicity to Daphnia and other aquatic invertebrates: (KMH)	48 hour LC <sub>50</sub> static assay to Daphnia magna (water flea): >1000mg/l
	96 hour LC <sub>50</sub> flow through assay in Mysid shrimp: >103 mg/l
Toxicity to birds:	Acute oral LD <sub>50</sub> toxicity to Mallard Ducks: >2000 mg/kg/bw (MH)
	Acute oral LD <sub>50</sub> toxicity to Bobwhite Quail: >4640 mg/kg/bw (KMH)
	Eight Day Dietary LC <sub>50</sub> to: Bobwhite Quail - >10,000 mg/kg (MH) Mallard Ducks - >10,000 mg/kg (MH)

Toxicity to algae:	96 hour IC <sub>50</sub> to green algae ( <i>Chlorella vulgaris</i> ): >100 mg/l (MH)
	5 day assay IC <sub>50</sub> to Bluegreen algae ( <i>Anabaena flos-aquae</i> ): >95 mg/l (KMH)
Toxicity of honey bees:	
Acute contact toxicity:	LD <sub>50</sub> >100 µg/bee (KMH)
Acute oral toxicity	LD <sub>50</sub> >100 µg/bee (KMH)

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### SECTION 13. DISPOSAL CONSIDERATION

#### Further information:

Dispose of waste material in compliance with all federal, state and local regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### DOT

Not dangerous goods

#### TDG

Not dangerous goods

#### IATA

Not dangerous goods

#### IMDG

Not dangerous goods

#### RID

Not dangerous goods

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**SECTION 15: REGULATORY INFORMATION**

OSHA Hazards:	This material is hazardous under the criteria of the Federal OSHA Hazard Communication standard 29CFR 1910.1200.
Sara 311/312 Hazards:	Acute health Hazard
California Prop. 65 components:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

The components of this product are reported in the following inventories:

REACH	Not in compliance with the inventory.
TSCA	All substances in this product are exempt from TSCA as this product is registered under FIFRA (Federal Insecticide Fungicide Rodenticide Act).
DSL	This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.
AICS	Not in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory

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**SECTION 16. OTHER INFORMATION**

HMIS Classification:

Health hazard: 1

Flammability: 0

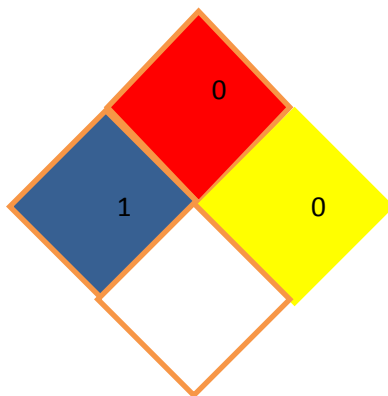
Reactivity: 0

NFPA Classification:

Health hazard: 1

Fire hazard: 0

Reactivity hazard: 0



This information in this Material Safety Data Sheet is correct to the best of our knowledge and information at the date of its publication. The information provided is designed only as a guidance document for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.